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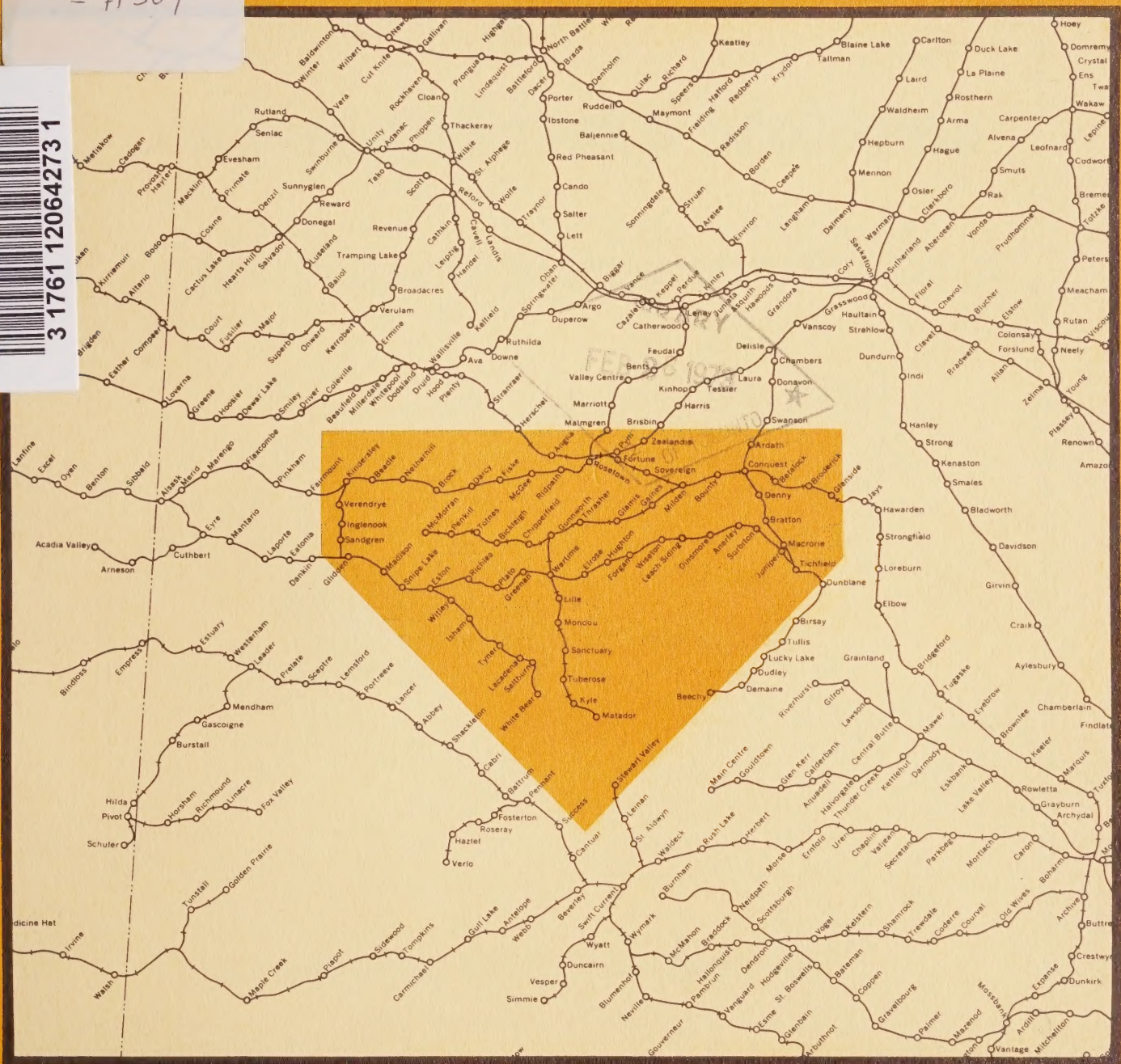
THE ESTON-ELROSE REGION OF SASKATCHEWAN

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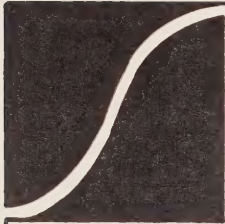


Economics Branch, Canada Department of Agriculture

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D. A. Neil



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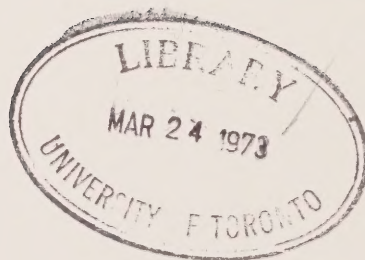
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REGINA, SASKATCHEWAN

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THE ESTON-ELIOT REGION OF SASKATCHEWAN

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(Supplement to Riverhurst Regional Report, September, 1967)
2. The Boissevain Region of Manitoba by J.W. Channon, D. Zasada and R.T. Miller, Economics Branch, Canada Department of Agriculture.
3. The Rockglen Region of Saskatchewan by J.W. Channon, D. Zasada and R.T. Miller, Economics Branch, Canada Department of Agriculture.
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6. The Killarney Region of Manitoba by J.W. Channon, D. Zasada and K. Morison, Economics Branch, Canada Department of Agriculture.
Pub. No. 71/7, May, 1971.
7. The Eston-Elrose Region of Saskatchewan by J.W. Channon, H.R. Fast and D.A. Neil, Economics Branch, Canada Department of Agriculture.
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PREFACE

This report on the Eston-Elrose region of Saskatchewan is the seventh in a series of Prairie Regional Studies in Economic Geography. The geographic area denoted by "Eston-Elrose region" is comprised of the grain-growing areas, or hinterlands, served by 60 delivery points. These are first listed in Table 1 and again in subsequent tables as required.

This collection of detailed tabular material and area maps seeks to describe the socio-economic activity of the region, with emphasis on grain farms and the communities and facilities serving them. From this information it is hoped the reader will gain an appreciation of the relative importance of the communities and their tributary areas.

Against this background of knowledge the impact of proposed programs and contemplated changes in the infrastructure of the region may be assessed. However, the authors have generally refrained from drawing inferences, arriving at conclusions and recommending solutions. Indeed, no attempt has even been made to search for and define a problem. We have been content to provide some of the parameters, bearing in mind the very significant changes in the grain production and marketing system that have been underway in the past several years. The reader will find that simultaneous examination of two or more tables in this report will frequently yield some interesting relationships suggesting new avenues of investigation.

This report is organized into four major parts, the first being a description of the communities themselves. The following community attributes are described: available services, population, school enrolment, postal activity, property tax assessment and transportation services. The second part describes some agricultural characteristics of the region including soils, meteorological data, land values, land use, crop yields, protein content, and farm sizes and tenure. Descriptive material contained in the third part focuses on the grain marketing and handling system as it relates to the delivery points. Among other things, this includes data on the number and capacity of grain elevators, number of permit holders, grain elevator receipts, quota base, grain prices and farm to elevator grain hauling activity. Finally, the last part assumes that certain delivery points are closed and then examines the effect this would have on remaining delivery points in the region. That is, it is first assumed that certain delivery points close. Their hinterlands are diverted and added to neighboring delivery point hinterlands. Finally, estimates are made of acreages, bushels and number of permit holders gained by delivery points remaining open, and of increased hinterland size and hauling distances.



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PART I

COMMUNITY ATTRIBUTES

Classification of Communities

For purposes of this study, the method of community classification is based on a modification of the system devised by the Saskatchewan Royal Commission on Agriculture and Rural Life.¹ The criteria used for classifying and ranking the communities in this study were number of service activities present and population. First, communities were classified by number of services into five categories: namely, "too small to classify", "hamlets", "villages", "towns", and "greater towns". Then, if two or more communities had an equal number of services, they were ranked by population.

This method of ranking is not perfect. For instance, it ignores dollar-volume of retail sales in each community and it does not take into account quality of service activities present. However, it appears to be more meaningful than a simple ranking by population.

Tables 2 and 3 show the number of services present in each community, which served as the basis for the service classification and initial ranking within each class. The 1970 population estimates shown in Table 5 were used in the ranking by population. The results are summarized in Table 1 where communities are listed in ascending order of rank. There were 23 communities too small to classify, 16 hamlets, 14 villages, 4 towns, and 3 greater towns.

The type and number of services shown for each delivery point, other than grain elevators, may not be 100 per cent accurate. This information was gleaned from a visual, field survey and from telephone directories. It is possible that some services were overlooked (e.g. door-to-door salesman; beauty parlour in basement of private home) and sometimes it was difficult to know whether a particular business or meeting hall was in regular use or abandoned.

As a working definition of "service" with respect to grain elevators the following criterion was used. The number of grain elevator companies actively receiving grain from producers, either on a part or full-time basis, during the 1969-70 crop year were counted. This means that the mere presence of a licensed, physical elevator facility was not counted a service if it was used for storage only. Also, if an elevator company had more than one elevator at a particular delivery point it was still only counted as one service.

¹Royal Commission on Agriculture and Rural Life, Regina, Saskatchewan: Queen's Printer, 1957, "Service Centers", Report No. 12.

Of the 23 delivery points too small to classify seven had no services, 11 had one service and five had 2 services (Table 2). The only type of service present was the grain elevator. Six delivery points, including Penkill, were being used for storage only by the end of the 1969-70 crop year. In the following crop year, 1970-71, Gaines and Greenan, a hamlet, also converted to storage points. Under a program recently initiated by the Canadian Wheat Board, these elevators are being emptied and disposed of, for instance, Lille closed in June, 1971. Elevators at Glen Payne and Saltburn closed earlier. Glen Payne was located on a C.P.R. track, abandoned in the latter part of 1962, connecting Rosetown and Gunnworth.

Table 3 clearly shows the types and range of services available in the various communities classified as hamlets and larger. The predominant activity in hamlets is the grain elevator and the associated fertilizer dealership, followed by the post office, a meeting hall or church, a small general store and a service station. The latter two are frequently operated by a single proprietor. During the course of conducting the field survey, information was received that the bulk fuel dealer at Bratton was being liquidated.

A similar pattern of services holds true for villages with the addition of a garage, bulk fuel dealer, grocery store, restaurant, hotel and beverage room, a skating or curling rink, fire hall and a small park or fair grounds. Seven villages had a school, five had a bank or credit union and four had a railway station. Absent are services like a clothing store, pharmacy, lawyer, physician and hospital.

Virtually the whole range of services is displayed in the group of towns and greater towns. Where previously there may only have been one establishment, now there are often two or more establishments of the same type. Some degree of specialization is evident. For instance, to the grocery store a bakery is added and to the hardware store an appliance sales and service store is added. Other specialized services, not itemized in Table 3, were also present. Examples are drive-in eating establishments, dentists, senior citizens home, trailer court and auto-body shop.

TABLE 1. CLASSIFICATION OF COMMUNITIES IN THE STUDY AREA

Too Small to Classify 0-2 Services	Hamlets 3-10 Services	Villages 11-35 Services	Towns 36-74 Services	Greater Towns 75 or More Services
Pym	Leach Siding	Bounty	Milden	Eston
Surbiton	McMorran	Hughton	Dinsmore	Rosetown
Glen Payne	Bratton	Glidden	Elrose	Kindersley
Saltburn	Glamis	Netherhill	Kyle	
Lille	Tuberose	Madison		
Chipperfield	Bickleigh	Fiske		
Verendrye	Snipe Lake	Macrorie		
Gaines	Greenan	Plato		
Mondou	Isham	White Bear		
Inglenook	McGee	Stewart Valley		
Penkill	Sanctuary	Lacadena		
Sandgren	Tyner	Sovereign		
Witley	Richlea	Wiseton		
Fortune	Wartime	Brock		
Juniper	Forgan			
Tichfield	D'Arcy			
Anerley				
Matador				
Ridpath				
Thrasher				
Gunnworth				
Totnes				
Beadle				

TABLE 2. SERVICES PRESENT IN COMMUNITIES TOO SMALL TO CLASSIFY, 1969-70

Delivery Point	Services (No. of Active Grain Elevator Companies)	
<i>Too Small to Classify (0-2)</i>		
Pym	Nil	(Storage only 1962-63 onward)
Surbiton	Nil	(Storage only 1963-64 onward)
Glen Payne	Nil	(Closed 1963-64)
Saltburn	Nil	(Closed 1964-65)
Lille ^a	Nil	(Storage only 1964-65 onward)
Chipperfield	Nil	(Storage only 1969-70 onward)
Verendrye	Nil	(Storage only 1969-70 onward)
Gaines ^b	1	
Mondou	1	
Inglenook	1	
Penkill	1	(Storage only Jan., 1970 onward)
Sandgren	1	
Witley	1	
Fortune	1	
Juniper	1	
Tichfield	1	
Anerley	1	
Matador	1	
Ridpath	2	
Thrasher	2	
Gunnworth	2	
Totnes	2	
Beadle	2	

^aClosed June 30, 1971.

^bStorage only 1970-71 crop year.

Source: Canadian Grain Commission, Winnipeg, Manitoba.

Retail Trade

Only a limited amount of information on retail sales volume in the study area was available and, therefore, could not be used in the ranking process (Table 4). Data was available for incorporated communities for census years 1961 and 1966, and then only if three or more business establishments had reported. (The number of outlets reporting in any one community often does not account for 100 per cent of the retail outlets actually operating in that community.)

In general, retail sales volume increased with the ascending order of community rank; however, it must be remembered that the ranking was established basis 1971 whereas the sales volume data is five and ten years old. Several instances where the retail sales pattern apparently does not correspond to the community ranking can be noted in 1966 for Stewart Valley, Sovereign, Wiseton and Brock. Retail sales of Stewart Valley and Wiseton are much higher than retail sales at Sovereign and Brock. This may mean that Stewart Valley and Wiseton are more important service centers than Sovereign and Brock but other factors like the nature of the particular business establishments reporting and business conditions in that particular year could modify our initial interpretation. A similar observation could be made with respect to Elrose and Kyle.

TABLE 4. RETAIL TRADE OF INCORPORATED COMMUNITIES IN THE STUDY AREA, 1961 AND 1966

Delivery Point	1961		1966	
	No. of Outlets	Retail Sales	No. of Outlets	Retail Sales
		-\$000's-		-\$000's-
<i>Villages</i>				
Bounty	3	69	4	67
Glidden	6	126	3	120
Netherhill	2	n.a.	1	n.a.
Madison	3	86	2	n.a.
Macrorie	4	149	3	134
Plato	4	82	2	n.a.
Stewart Valley	4	80	5	337
Sovereign	4	169	3	68
Wiseton	6	273	3	256
Brock	5	122	3	88
<i>Towns</i>				
Milden	7	364	6	295
Dinsmore	11	628	9	761
Elrose	11	891	9	1,004
Kyle	13	564	12	935
<i>Greater Towns</i>				
Eston	21	2,228	26	3,814
Rosetown	44	6,004	41	7,545
Kindersley	42	6,863	49	12,029

n.a. - Not available.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Population of Communities

Total population of the communities in the study area increased only 5.0 per cent between 1956 and 1970 (Table 5), and this increase is entirely due to increases in the populations of towns and greater towns. As a group the greater towns increased 20.9 per cent and the towns 6.7 per cent. All other classification groups decreased as follows: too small to classify 50.2 per cent, hamlets 31.6 per cent and villages 22.7 per cent. It should also be noted that total population of the towns and greater towns in 1970 accounted for 80.7 per cent of total community population. These trends illustrate the movement of people from small rural centers to larger centers. Total population of Saskatchewan between 1956 and 1970 increased 8.9 per cent.

TABLE 5. POPULATION OF COMMUNITIES IN THE STUDY AREA, CENSUS YEARS 1941 TO 1971
AND 1970 ESTIMATES^a

Delivery Point	1941	1951	1956	1961	1966	1970 Jan. 1 Estimates	1971 June 1 Preliminary
<i>Too Small to Classify</i>							
Pym			6			2	
Surbiton			6			8	
Glen Payne						2	
Saltburn						0	
Lille			12	7		0	
Chipperfield		9	13	1		4	
Verendrye						0	
Gaines		5	11	9		0	
Mondou		14	12	19	4	0	
Inglenook			13			0	
Penkill						2	
Sandgren						2	
Witley			15			3	
Fortune			13			5	
Juniper						7	
Tichfield		31	19	20	14	11	
Anerley		29	33	30	21	11	
Matador		13	76		54	54	
Ridpath				2		2	
Thrasher		9	8	8		5	
Gunnworth		25	27	16	8	5	
Totnes			24	24	12	7	
Beadle		28	29	37	16	28	
<i>Hamlets</i>							
Leach Siding			10			8	
McMorran		21	18	11		8	
Bratton		13	13		9	9	
Glamis		27	34	25	18	20	
Tuberoose		31	36	45	28	29	
Bickleigh		24	19	19	13	15	
Snipe Lake		38	63	29	19	19	
Greenan		6	19	26	25	20	
Isham		38	42	35	31	22	
McGee	82	58	50 ^b	48	40	43	
Sanctuary		64	84	69	46	46	
Tyner		53	65	72	63	65	
Richlea	135	115	120	84 ^b	82	79	
Wartime		97	111	96	62	62	
Forgan		81	98	93	66	66	
D'Arcy		50	65	65	68	68	
<i>Villages</i>							
Bounty	104	90	87	87	81	48	49
Hughton	141	87	100	87	85 ^c	72	
Glidden	92	94	131	145	112	80	70
Netherhill	133	91	111	111	90	70	68
Madison	95	104	107	101	107	80	58
Fiske		84	89	117	120	120	
Macrorie	101	123	152	182	194 ^d	141	120
Plato	119	135	185	178	102	64	66
White Bear		143	159	139	128	128	
Stewart Valley		130	153	181 ^e	128	138	138
Lacadena		121	164	142	138	138	
Sovereign	127	171	161	125	134	83	91

See footnotes at end of table

(continued)

TABLE 5. POPULATION OF COMMUNITIES IN THE STUDY AREA, CENSUS YEARS 1941 TO 1971 AND 1970 ESTIMATES^a (concluded)

Delivery Point	1941	1951	1956	1961	1966	1970 Jan. 1 Estimates	1971 June 1 Preliminary
Wiseton	163	224	215	246	197	210	181
Brock	163	191	240	222	223	216	195*
<i>Towns</i>							
Milden	211	314	390	388	288	270	239*
Dinsmore	215	301	388	433	510	450	422
Elrose	253	491	538	585	619	672	567
Kyle	201	337	467	535	518 ^f	510	507
<i>Greater Towns</i>							
Eston	726	1,301	1,625	1,695	1,548	1,548	1,428
Rosetown	1,470	1,865	2,262	2,450	2,658	2,658	
Kindersley	990	1,755	2,572	2,990	3,534 ^g	3,600	
Study Area Total ^h	5,521	9,031	11,460	12,059	12,213	12,033	
Province of Saskatchewan	895,992	831,728	880,665	925,181	955,344	959,000	

* Denotes change in boundaries since 1966.

^aA blank space means not available.

^bDisorganized

^cVillage of Hughton disorganized in 1965.

^dPart of Fertile Valley R.M. annexed to Macrorie, 1963.

^eIncorporated as a village in 1958.

^fParts of Lacadena R.M. annexed to Kyle, Aug. 1, 1961 and 1965. Part of Kyle added to Lacadena, Aug. 1, 1961.

^gPart of Kindersley R.M. annexed to town of Kindersley in 1965.

^hTotal population of those communities for which data were available.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.
Municipal Directory, 1970, Saskatchewan Department of Municipal
 Affairs, Regina.
Directory of Hamlets and Settlements, 1969, Saskatchewan Department
 of Municipal Affairs, Regina.

Farm Population

The study area encompasses 13 rural municipalities listed in Table 6. The figures shown are the numbers of people living on census farms.¹ In every municipality farm population decreased between 1941 and 1966 as it has for the entire province. For the province it declined 45.4 per cent while farm population in the study area declined 42.9 per cent.

The combined effects of a substantial decline in farm population and an increase in total population resulted in rather sharp declines in the proportion of persons on farms, from a provincial total of 41.1 per cent in 1956 to 29.4 per cent ten years later. The proportion of persons on farms in the study area dropped from about 50.9 per cent to 44.4 per cent during the same time period. These data also illustrate the familiar rural to urban migration trend.

¹For a definition of the term "census farm" the reader is referred to the Agriculture Census of Canada, 1966.

TABLE 6. FARM POPULATION IN THE STUDY AREA BY RURAL MUNICIPALITY,
CENSUS YEARS 1941 TO 1966

Rural Municipalities	1941	1951	1956	1961	1966
<i>Census Division #7</i>					
226. Victory	1,142 ^a	755	789	714	531
255. Coteau	1,091	815	821	680	654
256. King George	875	576	613	398	492
<i>Census Division #8</i>					
167. Saskatchewan Landing	1,030	718	632	564	547
228. Lacadena	1,831 ^a	1,489	1,408	1,332	1,129
257. Monet ^b	1,500	1,126	1,193	1,087	855
259. Snipe Lake ^b	1,847	1,159	1,125	1,171	1,081
260. Newcombe	1,093	753	787	754	785
<i>Census Division #12</i>					
285. Fertile Valley	1,553	1,058	1,014	998	874
286. Milden	1,073	800	805	667	592
287. St. Andrews	1,289	1,050	996	851	688
288. Pleasant Valley	1,025	644	624	504	457
<i>Census Division #13</i>					
290. Kindersley ^c	2,665	1,823	1,817	1,782	1,595
Study Area Total	18,014	12,766	12,624	11,502	10,280
Farm Population of Saskatchewan	514,677	399,473	362,231	305,740	281,089

^aAdjusted to include farm population of 227. L.I.D. which has since been annexed to 226. Victory and 228. Lacadena. Farm population of 227. L.I.D. was prorated according to proportions of its area annexed to each of 226. Victory and 228. Lacadena; namely, one third and two thirds respectively.

^bFigures for 1961 and earlier adjusted to include 258. Fairview which was annexed to 257. Monet and 259. Snipe Lake, January 1, 1966. Farm population of 258. Fairview was prorated according to proportions of its area annexed to each of 257. Monet and 259. Snipe Lake; namely, two thirds and one third respectively.

^cFigures for 1961 and earlier adjusted to include 289. Hillsburgh annexed to 290. Kindersley, January 1, 1966. In addition, the 1941 figure includes farm population of 291. Elma which has since been annexed to 290. Kindersley.

Source: Census of Canada, Dominion Bureau of Statistics, Ottawa.

Population by Sex and Age Groups

Tables 7 and 8 contain 1966 Census population data for incorporated communities and rural municipalities making up the study area, as well as provincial totals. Males outnumbered females in the study area, which was also true for the province. In the study area, 51.7 per cent of population were male compared to 51.2 per cent in Saskatchewan.

The age group that most closely represents the effective working population is the 20 to 64 age group. In the province this group comprised 47.9 per cent of the population. The study area closely approximated this at 47.4 per cent. People in the retired age group made up a significantly larger proportion of those living in incorporated communities than on farms and unincorporated communities. There did not appear to be much difference in this respect for the other two age groups.

TABLE 7. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966

		Years of Age										70 and over
Total		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Incorporated Communities												
	Bounty											
	T.	81	4	5	8	7	3	3	26	6	2	14
	M.	45	2	3	4	5	1	1	13	4	1	9
	F.	36	2	2	4	2	2	2	13	2	1	5
Glidden												
	T.	112	10	12	13	6	1	15	13	10	2	7
	M.	48	1	4	8	1	1	6	6	6	1	4
	F.	64	9	8	5	5	0	9	7	4	1	3
Netherhill												
	T.	90	13	12	12	4	4	11	13	7	3	7
	M.	45	8	6	5	2	1	2	6	5	2	5
	F.	45	5	6	7	2	3	8	7	2	1	2
Madison												
	T.	107	18	16	11	5	2	10	8	9	4	8
	M.	55	9	8	5	3	1	2	0	7	2	7
	F.	52	9	8	6	2	1	8	8	2	2	1
Macrorie												
	T.	194	25	22	25	22	16	23	25	7	4	10
	M.	104	13	12	15	10	8	13	13	4	0	7
	F.	90	12	10	10	12	8	10	12	3	4	3
Plato												
	T.	102	11	12	12	10	3	6	17	7	4	7
	M.	60	9	6	7	7	0	3	8	6	3	4
	F.	42	2	6	5	3	3	3	9	1	1	3
Stewart Valley												
	T.	128	10	11	12	15	6	11	15	20	6	14
	M.	64	5	7	7	8	3	6	5	11	4	4
	F.	64	5	4	5	7	3	5	10	9	2	10
Sovereign												
	T.	134	9	12	17	16	6	8	17	19	8	14
	M.	63	1	6	4	11	3	3	5	11	5	8
	F.	71	8	6	13	5	3	5	12	8	3	6

See footnotes at end of table

(continued)

TABLE 7. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
Wiseton	T.	197	13	24	19	17	5	20	26	18	15	12	28
	M.	92	5	9	10	11	3	10	13	8	9	5	9
	F.	105	8	15	9	6	2	10	13	10	6	7	19
Brock	T.	223	23	21	14	18	12	18	14	33	26	11	33
	M.	106	11	9	5	10	6	11	6	14	9	5	20
	F.	117	12	12	9	8	6	7	8	19	17	6	13
Milden	T.	288	16	20	42	28	20	15	36	39	29	9	34
	M.	141	9	5	17	20	10	8	16	17	13	5	21
	F.	147	7	15	25	8	10	7	20	22	16	4	13
Dinsmore	T.	510	48	54	45	47	33	45	52	53	59	21	53
	M.	281	31	33	22	29	20	22	26	27	25	12	34
	F.	229	17	21	23	18	13	23	26	26	34	9	19
Elrose	T.	619	52	52	65	64	42	53	60	71	60	15	85
	M.	307	30	27	34	28	20	27	31	33	27	4	46
	F.	312	22	25	31	36	22	26	29	38	33	11	39
Kyle	T.	518	45	56	55	45	27	55	53	65	45	23	49
	M.	277	23	38	34	24	16	27	24	33	21	13	24
	F.	241	22	18	21	21	11	28	29	32	24	10	25
Eston	T.	1,548	134	154	161	135	91	149	179	164	137	49	195
	M.	756	65	78	87	70	48	72	87	74	65	20	90
	F.	792	69	76	74	65	43	77	92	90	72	29	105
Rosetown	T.	2,658	281	265	256	285	216	258	310	301	198	73	215
	M.	1,305	136	136	117	150	103	136	156	140	103	30	98
	F.	1,353	145	129	139	135	113	122	154	161	95	43	117
Kindersley	T.	3,534	403	405	334	332	299	435	361	327	236	90	312
	M.	1,773	202	202	175	156	170	227	180	155	112	41	153
	F.	1,761	201	203	159	176	129	208	181	172	124	49	159

See footnotes at end of table

(continued)

TABLE 7. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (continued)

	Total	Years of Age										70 and over
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
<i>Rural Municipalities^a</i>												
226. Victory	765	84	91	91	75	50	78	95	110	50	10	31
T.	400	35	44	45	41	28	45	49	57	32	5	19
M.	365	49	47	46	34	22	33	46	53	18	5	12
F.												
255. Coteau	747	75	80	85	87	35	73	72	116	65	15	44
T.	404	40	43	41	49	20	43	34	58	38	12	26
M.	343	35	37	44	38	15	30	38	58	27	3	18
F.												
256. King	498	63	60	70	42	24	58	71	52	32	12	14
George	270	33	33	33	22	11	32	37	31	21	8	9
T.	228	30	27	37	20	13	26	34	21	11	4	5
M.												
F.												
167. Saskatchewan	452	70	66	46	33	21	56	60	41	34	9	16
Landing	235	32	29	25	15	14	24	36	22	18	9	11
T.	217	38	37	21	18	7	32	24	19	16	0	5
M.												
F.												
228. Lacadena	1,646	157	211	239	138	56	158	246	212	95	40	94
T.	888	79	103	139	78	31	68	136	125	50	20	59
M.	758	78	108	100	60	25	90	110	87	45	20	35
F.												
257. Monet	1,161	107	143	167	122	69	90	154	157	79	20	53
T.	637	54	82	82	70	47	46	75	88	45	11	37
M.	524	53	61	85	52	22	44	79	69	34	9	16
F.												
259. Snipe	1,297	112	158	154	139	63	123	183	162	109	35	59
Lake	687	57	79	79	79	40	64	98	80	55	20	36
T.	610	55	79	75	60	23	59	85	82	54	15	23
M.												
F.												
260. Newcombe	798	99	104	109	89	44	71	101	109	41	10	21
T.	415	47	50	58	43	26	31	50	66	23	5	16
M.	383	52	54	51	46	18	40	51	43	18	5	5
F.												

(continued)

See footnotes at end of table

TABLE 7. POPULATION BY SPECIFIED AGE GROUPS AND SEX FOR INCORPORATED COMMUNITIES AND RURAL MUNICIPALITIES IN THE STUDY AREA, 1966 (concluded)

		Years of Age											70 and over
		Total	0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-69	
285. Fertile Valley	T.	921	67	109	135	82	36	68	120	154	77	21	52
	M.	494	33	57	61	46	24	37	63	84	49	9	31
	F.	427	34	52	74	36	12	31	57	70	28	12	21
286. Milden	T.	634	52	71	90	63	33	53	94	84	51	26	17
	M.	333	27	31	44	36	20	29	43	49	27	18	9
	F.	301	25	40	46	27	13	24	51	35	24	8	8
287. St. Andrews	T.	725	58	79	96	74	27	68	82	132	54	25	30
	M.	398	33	36	51	47	15	37	35	74	36	16	18
	F.	327	25	43	45	27	12	31	47	58	18	9	12
288. Pleasant Valley	T.	665	54	78	81	59	30	70	64	82	72	26	49
	M.	355	24	41	42	34	23	36	31	43	39	17	25
	F.	310	30	37	39	25	7	34	33	39	33	9	24
290. Kindersley	T.	1,815	184	233	285	186	82	144	243	228	121	34	75
	M.	950	87	127	148	84	42	82	123	119	72	21	45
	F.	865	97	106	137	102	40	62	120	109	49	13	30
Study Area Total	T.	23,167	2,297	2,636	2,749	2,245	1,356	2,238	2,773	2,844	1,770	619	1,640
	M.	11,988	1,141	1,344	1,404	1,189	756	1,150	1,400	1,453	943	324	884
	F.	11,179	1,156	1,292	1,345	1,056	600	1,088	1,373	1,391	827	295	756
Provincial Total	T.	955,344	107,515	110,130	103,304	88,412	62,150	104,651	110,413	103,270	76,617	27,264	61,618
	M.	489,040	54,979	56,128	53,042	44,786	31,551	53,255	56,052	52,290	40,352	14,057	32,548
	F.	466,304	52,536	54,002	50,262	43,626	30,599	51,396	54,361	50,980	36,265	13,207	29,070

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.

Source: Census of Canada, 1966, Dominion Bureau of Statistics, Ottawa.

TABLE 8. PROPORTION OF POPULATION FALLING WITHIN THREE SPECIFIED AGE GROUPS, 1966

	Pre-School and School Age Groups (0 to 19 years)	Working Age Group (20 to 64)	Retired Age Group (65. and Over)
- per cent -			
<i>Incorporated Communities</i>			
Bounty	29.6	50.6	19.8
Glidden	34.8	55.4	9.8
Netherhill	45.6	43.3	11.1
Madison	46.7	42.1	11.2
Macrorie	48.5	44.3	7.2
Plato	44.1	45.1	10.8
Stewart Valley	37.5	46.9	15.6
Sovereign	40.3	43.3	16.4
Wiseton	37.1	42.6	20.3
Brock	34.1	46.2	19.7
Milden	36.8	48.3	14.9
Dinsmore	38.0	47.5	14.5
Elrose	37.6	46.2	16.2
Kyle	38.8	47.3	13.9
Eston	37.7	46.5	15.8
Rosetown	40.9	48.3	10.8
Kindersley	41.7	46.9	11.4
<i>Rural Municipalities^a</i>			
Victory	44.6	50.0	5.4
Coteau	43.8	48.3	7.9
King George	47.2	47.6	5.2
Saskatchewan Landing	47.6	46.9	5.5
Lacadena	45.3	46.6	8.1
Monet	46.4	47.3	6.3
Snipe Lake	43.4	49.4	7.2
Newcombe	50.3	45.8	3.9
Fertile Valley	42.7	49.4	7.9
Milden	43.5	49.7	6.8
St. Andrews	32.8	59.6	7.6
Pleasant Valley	40.9	47.8	11.3
Kindersley	48.9	45.1	6.0
Study Area Total	42.8	47.4	9.8
Provincial Total	42.8	47.9	9.3

^aRural municipality data include farm and unincorporated community population but exclude populations of incorporated communities.

Source: Calculated from Table 7.

School Enrolment

It is evident from school enrolment figures (Table 9) that the trend in Western Canada towards school consolidation has affected the Eston-Elrose study area as well. None of the communities too small to classify had a school in 1970-71 and only D'Arcy, the largest of the hamlets, had one school for grades 1-8. Six of the 14 villages had schools with the highest grade offered being Grade 9 at Glidden. All of the towns and greater towns had both elementary and high schools.

TABLE 9. SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1970-71

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux	Total	Pupils Conveyed to
- enrolment -																
<i>Too Small to Classify</i>																
Pym																Rosetown
Surbiton																Dinsmore
Glen Payne																Rosetown
Saltburn																Kyle
Lille																Elrose
Chipperfield																Elrose
Verendrye																Kindersley
Gaines																Rosetown
Mondou																Elrose
Inglenook																Kindersley
Penkill																Rosetown
Sandgren																Dinsmore
Witley																Dinsmore
Fortune																Kyle
Juniper																Rosetown
Tichfield																Rosetown
Anerley																Elrose
Matador																Eston
Ridpath																Kindersley
Thrasher																
Gunnworth																
Totnes																
Beadle																
<i>Hamlets</i>																
Leach Siding																Dinsmore
McMorran																Eston
Bratton																Conquest & Outlook
Glamis																Rosetown
Tuberose																Kyle
Bickleigh																Eston & Elrose
Snipe Lake																Eston
Greenan																Eston
Isham																Rosetown
McGee																Kyle
Sanctuary																Eston
Tyner																Eston
Richlea																Elrose
Wartime																Elrose
Forgan																Rosetown (9-12)
D'Arcy																
		10	11	10	7	*	*	*	*	*					38	

(continued)

See footnotes at end of table

TABLE 9. SCHOOL ENROLMENT IN THE STUDY AREA BY GRADES, SCHOOL YEAR 1970-71 (concluded)

Delivery Point	Grades:	1	2	3	4	5	6	7	8	9	10	11	12	Aux	Total	Pupils Conveyed to
- enrolment -																
<i>Villages</i>																
Bounty																
Hughton																
Glidden	9	11	10	*	1	3	3	*	3	1					38	Conquest & Outlook Elrose Kindersley (10-12) Kindersley
Netherhill																
Madison																Eston
Fiske																D'Arcy (1-8), Rosetown (9-12) Outlook (9-12)
Macrorie	9	11	6	9	12	14	6	22							89	Eston
Plato																Kyle (6-12)
White Bear	9	7	11	8	9	13									57	Swift Current (9-12)
Stewart Valley	Total Enrolment	3	6	*											106	Elrose (5-12)
Lacadena	3	3	6												12	Rosetown
Sovereign																Dinsmore (8-12)
Wiseton	9	9	6	7	3	7	10								51	Rosetown (7-12)
Brock	9	8	10	9	8	7									51	
<i>Towns</i>																
Milden	8	17	13	10	26	11	15	24	29	8	19	20			210	
Dinsmore	5	12	13	16	14	24	20	34	40	32	25	29		2	276	
Elrose	32	32	25	33	32	47	53	41	54	46	47	45			487	
Kyle	17	20	29	33	21	28	30	36	50	42	34	39			379	
<i>Greater Towns</i>																
Eston	58	64	53	59	70	67	65	69	82	77	77	57			798	
Rosetown	76	76	73	79	93	82	124	127	144	135	126	131		16	1,282	
Kindersley	93	130	107	129	107	109	152	155	143	129	125	137		14	1,530	

Aux - Auxiliary classes

* Asterisk indicates that the grades in question were available but no students were enrolled during 1970-71 school year.

Source: Saskatchewan Department of Education, Regina.

Post Office Revenue

Post office revenues serve as a crude indicator of socio-economic activity in a community and its environs (Table 10). The last post office in communities too small to classify was closed in 1968 at Surbiton. All but three of the hamlets had post offices until 1970. In addition, the Glamis post office has closed since then. All hamlet post office revenues in recent years, except Richlea, have been less than \$1,000 and most have experienced downward trends. In 1970 village post office revenues, for the most part, ranged from about \$1,000 to \$3,000. Bounty had postal revenues of only \$360. At present, mail going to Bounty is dispatched from Conquest and placed in community mailboxes located in Bounty. Revenues of towns are in the \$4,000 to \$11,000 brackets and all experiencing upward trends. Substantial revenue increases have also occurred in Eston, Rosetown and Kindersley, whose postal revenues are in excess of \$20,000 to \$50,000.

TABLE 10. POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1957-58 TO 1969-70

Delivery Point	Year Ending March 31												
	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
- dollars -													
Too Small to Classify													
Pym	No Post Office												
Surbiton	221	186											
Glen Payne	Closed 1916		176	181	179	178	178	206	246	263	243	Closed 1968	
Saltburn	Closed 1924												
Lille	n.a.	n.a.	Closed 1960										
Chipperfield	118	51	62	41	37	Closed 1963							
Verendrye	No Post Office												
Gaines	No Post Office												
Mondou	114	Closed 1959											
Inglenook	Closed 1926												
Penkill	Closed 1947												
Sandgren	No Post Office												
Witley	No Post Office												
Fortune	Closed 1921												
Juniper	No Post Office												
Tichfield	412	410	281	253	148	202	203	173	Closed 1965				
Anerley	366	296	212	204	195	237	196	195	86	Closed 1966			
Matador	Closed 1949												
Ridpath	Closed 1949												
Thrasher	No Post Office												
Gunsworth	47	51	64	64	84	Closed 1963							
Totnes	451	422	384	361	412	388	386	124	Closed 1965				
Beadle	531	466	427	429	425	418	176	Closed October, 1963					
Hamlets													
Leach Siding	No Post Office												
McMorran	Closed 1952												
Bratton	294	298	Closed 1959										
Glamis	364	354	319	333	393	320	378	367	329	377	354	257	54
Tuberoose	439	473	415	376	328	328	291	294	276	260	278	238	233
Bickleigh	335	322	297	344	354	341	326	358	341	334	301	322	332
Snipe Lake	406	402	357	331	168	Closed 1961							
Greenan	520	513	532	567	535	529	516	582	532	475	439	416	467
Isham	533	493	445	466	460	500	474	507	451	452	463	532	574
McGee	596	589	600	544	630	643	616	622	575	601	607	530	655
Sanctuary	443	472	480	490	473	473	408	467	445	436	445	431	387
Tyner	726	728	732	695	741	703	637	615	672	624	636	614	578
Richlea	1,247	1,152	1,104	1,061	982	1,029	1,067	1,151	1,179	1,132	1,179	1,040	1,052
Wartime	884	877	870	891	847	888	856	983	872	856	888	815	780
Forgan	1,011	1,021	1,000	903	857	878	884	892	787	837	869	818	935
D'Arcy	930	965	960	884	955	893	1,037	1,068	1,000	955	915	879	914

(continued)

See footnotes at end of table

TABLE 10. POST OFFICE REVENUE IN THE STUDY AREA, FISCAL YEARS 1957-58 TO 1969-70 (concluded)

Delivery Point	Year Ending March 31	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
							- dollars -							
<i>Villages</i>														
Bounty	850	802	712	758	734	714	722	740	683	627	518	483	360	
Hughton	1,065	1,185	1,085	1,430	1,121	1,172	1,319	1,563	1,487	1,676	1,408	1,511	1,527	
Glidden	1,580	1,510	1,483	1,442	1,449	1,488	1,438	1,492	1,402	1,272	1,383	1,293	1,178	
Netherhill	1,045	1,083	1,011	1,023	1,056	1,104	1,160	1,303	1,164	1,059	999	988	1,088	
Madison	1,320	1,271	1,246	1,245	1,238	1,213	1,309	1,381	1,264	1,249	1,261	1,257	1,705	
Fiske	1,148	1,194	1,241	1,239	1,245	1,332	1,431	1,530	1,390	1,411	1,328	1,232	1,456	
Macrorie	1,711	1,708	1,669	1,690	1,867	1,854	1,928	2,245	2,183	2,320	2,477	2,478	2,484	
Plato	1,257	1,145	1,167	1,029	1,060	1,081	1,045	1,089	1,142	1,115	973	1,078	1,215	
White Bear	1,629	1,554	1,439	1,387	1,537	1,462	1,473	1,657	1,695	1,724	1,748	1,430	1,495	
Stewart Valley	1,432	1,380	1,361	1,442	1,394	1,407	1,387	1,484	1,387	1,446	1,487	1,505	1,511	
Lacadena	2,033	2,006	1,882	2,115	2,055	2,048	2,022	2,319	2,245	2,179	2,201	2,220	2,431	
Sovereign	1,637	1,600	1,599	1,610	1,591	1,543	1,550	1,624	1,494	1,468	1,509	1,562	1,584	
Wiseton	2,706	2,892	2,701	2,844	2,558	2,675	2,505	2,623	2,588	2,572	2,614	2,728	3,097	
Brock	2,422	2,329	2,330	2,206	2,379	2,408	2,559	2,862	2,638	2,571	2,551	2,422	2,652	
<i>Towns</i>														
Milden	4,177	4,194	4,205	4,401	4,018	3,920	3,924	4,153	4,208	4,258	4,373	4,378	4,792	
Dinsmore	5,304	5,314	5,597	5,569	6,049	6,104	6,322	6,799	6,944	7,384	7,462	7,999	8,521	
Elrose	6,326	6,328	6,720	7,110	6,943	7,018	7,622	8,384	8,474	8,558	9,310	10,001	11,704	
Kyle	4,625	4,888	5,279	5,657	6,190	6,480	6,318	7,170	7,115	7,638	7,730	8,397	9,153	
<i>Greater Towns</i>														
Eston	14,673	15,078	16,327	16,221	16,923	17,270	18,403	19,868	20,215	19,693	20,658	20,995	23,826	
Rosetown	29,038	29,852	30,007	30,763	31,086	32,897	32,110	35,823	37,083	37,793	40,079	42,851	48,971	
Kindersley	31,430	29,995	30,602	33,483	33,554	36,879	38,361	42,523	40,596	42,495	44,836	47,044	52,668	

n.a. - Not available.

Source: Canada Post Office Department, Ottawa.

Property Tax Assessment

The property tax assessment figures in Table 11 show the relative importance of railway property and other right-of-way occupancies to the total assessment of each community in the area. Generally speaking, the larger the community with respect to number of service activities, the lower is the proportion of tax assessment related to railway associated property. This is dramatically portrayed by comparing the proportions in communities too small to classify with those in towns and greater towns. In many small centers railway associated assessment made up 100 per cent of the total while in Kindersley it accounted for only 8.0 per cent.

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971

	Too Small to Classify					
	Pym	Surbiton	Glen Payne	Saltburn	Lille	Chipperfield
						Verendrye
<i>Right-of-Way Properties</i>						
Railway Property	-	-	-	-	-	-
Roadway	270	420	-	-	680	260
Other Land	90	-	-	-	290	-
Buildings	-	-	-	-	100	-
Business	-	-	-	-	-	-
Other Property	40	30	-	-	90	60
Taxable Land	1,600	9,260	-	-	7,480	8,570
Taxable Buildings	7,560	1,940	-	-	1,570	1,560
Taxable Business	-	-	-	-	-	-
Total Assessment of R.O.W. Properties	9,560	11,650	-	-	10,210	10,450
<i>Non-Right-of-Way Properties</i>						
Taxable Land	-	60	-	-	-	50
Taxable Buildings	-	1,920	-	-	-	1,220
Taxable Business	-	510	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	-	2,490	-	-	-	1,270
Total Tax Assessment	9,560	14,140	-	-	10,210	11,720
Per Cent of Tax Assessment derived from R.O.W. Properties	100.0	82.4	-	-	100.0	89.2

(continued)

See footnotes at end of table

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Too Small to Classify					
	Gaines	Mondou	Inglenook	Penkill	Sandgren	Witley
						Fortune
- dollars -						
<i>Right-of-Way Properties</i>						
Railway Property						
Roadway	-	-	-	-	-	-
Other Land	640	560	480	400	340	420
Buildings	900	130	-	80	-	330
Business	100	100	-	100	-	-
Other Property						
Taxable Land	170	160	50	170	60	90
Taxable Buildings	17,040	20,870	8,710	9,520	8,810	19,100
Taxable Business	3,200	3,360	1,600	1,660	1,580	3,400
Total Assessment of R.O.W. Properties	22,050	25,180	10,840	11,930	10,790	23,340
						31,870
<i>Non-Right-of-Way Properties</i>						
Taxable Land	-	350	-	40	150	40
Taxable Buildings	-	1,770	-	1,030	1,520	1,800
Taxable Business	-	-	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	-	2,120	-	1,070	1,670	1,840
Total Tax Assessment	22,050	27,300	10,840	13,000	12,460	25,180
						34,650
Per Cent of Tax Assessment derived from R.O.W. Properties	100.0	92.2	100.0	91.8	86.6	92.7
						92.0

See footnotes at end of table (continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Too Small to Classify						
	Juniper	Tichfield	Anerley	Matador	Ridpath	Thrasher	Gunnworth
- dollars -							
<i>Right-of-Way Properties</i>							
Railway Property							
Roadway	-	-	-	-	-	-	-
Other Land	350	460	440	620	380	800	730
Buildings	-	290	1,740	-	-	60	580
Business	-	100	100	-	-	100	-
Other Property							
Taxable Land	70	130	90	150	80	240	220
Taxable Buildings	13,970	20,710	20,940	20,610	15,930	22,740	21,170
Taxable Buildings	3,240	4,420	4,780	3,800	1,480	3,040	3,480
Total Assessment of R.O.W. Properties	17,630	26,110	28,090	25,180	17,870	26,980	26,180
<i>Non-Right-of-Way Properties</i>							
Taxable Land	50	560	480	70	410	120	520
Taxable Buildings	1,260	4,090	6,680	1,640	-	3,500	3,750
Taxable Business	-	-	-	-	-	-	-
Total Assessment of Non-Right-of-Way Properties	1,310	4,650	7,160	1,710	410	3,620	4,270
Total Tax Assessment	18,940	30,760	35,250	26,890	18,280	30,600	30,450
Per Cent of Tax Assessment derived from R.O.W. Properties	93.1	84.9	79.7	93.6	97.8	88.2	86.0

See footnotes at end of table

(continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Too Small to Classify					Hamlets			
	Totnes	Beadle	Leach Siding	McMorran	Bratton	Glamis	Tuberosse		
	- dollars -								
Right-of-Way Properties									
Railway Property									
Roadway	-	-	-	-	-	-	-	-	
Other Land	540	430	-	850	380	1,090	660	660	
Buildings	570	-	-	-	-	460	290	290	
Business	100	-	-	-	-	100	100	100	
Other Property									
Taxable Land	200	200	120	210	40	300	320	320	
Taxable Buildings	23,110	35,500	17,510	22,690	11,290	38,520	31,560	31,560	
Taxable Business	3,460	6,270	3,880	3,930	2,000	5,790	5,730	5,730	
Total Assessment of R.O.W. Properties	27,980	42,400	21,510	27,680	13,710	46,260	38,660	38,660	
Non-Right-of-Way Properties									
Taxable Land	170	740	100	80	130	570	1,340	1,340	
Taxable Buildings	5,620	7,120	2,330	2,840	4,690	12,470	15,000	15,000	
Taxable Business	-	-	-	-	1,440	-	-	-	
Total Assessment of Non-Right-of-Way Properties	5,790	7,860	2,430	2,920	6,260	13,040	16,340	16,340	
Total Tax Assessment	33,770	50,260	23,940	30,600	19,970	59,300	55,000	55,000	
Per Cent of Tax Assessment derived from R.O.W. Properties	82.9	84.4	89.8	90.5	68.7	78.0	70.3	70.3	

See footnotes at end of table

(continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Hamlets						
	Bickleigh	Snipe Lake	Greenan	Isham	McGee	Sanctuary	Tyner
	- dollars -						
Right-of-Way Properties							
Railway Property							
Roadway	-	-	-	-	-	-	-
Other Land	690	560	380	460	490	1,140	700
Buildings	270	60	-	270	-	290	290
Business	100	-	-	100	-	100	100
Other Property							
Taxable Land	170	280	40	190	140	730	430
Taxable Buildings	17,470	55,350	7,420	38,000	15,750	36,750	36,000
Taxable Business	3,340	9,470	1,760	5,960	3,020	5,790	5,560
Total Assessment of R.O.W. Properties	22,040	65,720	9,600	44,980	19,400	44,800	43,080
Non-Right-of-Way Properties							
Taxable Land	710	750	1,930	1,110	2,150	5,020	3,530
Taxable Buildings	13,870	12,540	15,550	21,320	14,680	27,970	32,290
Taxable Business	3,490	-	2,180	1,870	1,450	3,260	-
Total Assessment of Non-Right-of-Way Properties	18,070	13,290	19,660	24,300	18,280	36,250	35,820
Total Tax Assessment	40,110	79,010	29,260	69,280	37,680	81,050	78,900
Per Cent of Tax Assessment derived from R.O.W. Properties	55.0	83.2	32.8	64.9	51.5	55.3	54.6
See footnotes at end of table							(continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Hamlets				Villages		
	Richlea	Wartime	Forgan	D'Arcy	Bounty	Hughton	Glidden
- dollars -							
<i>Right-of-Way Properties</i>							
Railway Property							
Roadway	-	-	-	-	3,160	-	1,470
Other Land	710	1,030	880	460	840	1,170	670
Buildings	1,940	2,200	2,210	-	200	1,900	3,390
Business	100	200	100	-	100	100	100
Other Property							
Taxable Land	490	520	620	240	530	900	510
Taxable Buildings	77,740	36,930	71,180	27,190	32,440	74,900	60,210
Taxable Business	12,090	5,760	10,870	3,360	5,950	11,920	9,440
Total Assessment of R.O.W. Properties	93,070	46,640	85,860	31,250	43,220	90,890	75,790
<i>Non-Right-of-Way Properties</i>							
Taxable Land	3,920	4,430	2,970	2,690	8,900	9,330	5,970
Taxable Buildings	63,550	39,450	31,960	34,580	46,240	52,810	57,680
Taxable Business	3,380	2,520	2,590	970	4,660	5,190	1,380
Total Assessment of Non-Right-of-Way Properties	70,850	46,400	37,520	38,240	59,800	67,330	65,030
Total Tax Assessment	163,920	93,040	123,380	69,490	103,020	158,220	140,820
Per Cent of Tax Assessment derived from R.O.W. Properties	56.8	50.1	69.6	45.0	42.0	57.4	53.8

See footnotes at end of table (continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Villages					
	Netherhill	Madison	Fiske	Macrorie	Plato	White Bear Stewart Valley
- dollars -						
<i>Right-of-Way Properties</i>						
Railway Property						
Roadway	-	1,740	-	1,650	1,500	2,430
Other Land	680	1,180	700	900	730	1,600
Buildings	2,310	2,260	2,660	3,920	2,000	100
Business	100	100	960	620	350	100
Other Property						
Taxable Land	390	940	410	470	480	1,130
Taxable Buildings	45,000	77,300	39,730	20,930	40,510	46,880
Taxable Business	8,240	11,800	8,910	6,480	7,350	10,660
Total Assessment of R.O.W. Properties	56,720	95,320	53,370	34,970	52,920	62,900
<i>Non-Right-of-Way Properties</i>						
Taxable Land	8,520	6,920	9,560	17,720	15,150	25,720
Taxable Buildings	49,710	66,240	68,450	88,710	62,740	114,220
Taxable Business	5,420	10,590	9,200	10,910	3,200	11,870
Total Assessment of Non-Right-of-Way Properties	63,650	83,750	87,210	117,340	81,090	151,810
Total Tax Assessment	120,370	179,070	140,580	152,310	134,010	214,710
Per Cent of Tax Assessment derived from R.O.W. Properties	47.1	53.2	38.0	23.0	39.5	29.3

See footnotes at end of table (continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (continued)

	Villages					Towns		
	Lacadena	Sovereign	Wiseton	Brock	Milden	Dinsmore	Elrose	
- dollars -								
<i>Right-of-Way Properties</i>								
Railway Property								
Roadway	-	3,310	1,530	780	2,000	3,180	5,300	
Other Land	1,210	1,620	1,840	1,000	4,130	2,930	4,690	
Buildings	2,380	240	2,140	3,950	3,040	3,580	5,010	
Business	100	100	720	960	1,450	790	840	
Other Property								
Taxable Land	940	1,340	1,780	910	3,780	3,270	4,570	
Taxable Buildings	50,330	66,130	71,350	34,960	78,860	123,870	78,630	
Taxable Business	12,560	10,050	12,620	11,510	16,030	19,780	21,910	
Total Assessment of R.O.W. Properties	67,520	82,790	91,980	54,070	109,290	157,400	120,950	
<i>Non-Right-of-Way Properties</i>								
Taxable Land	12,560	13,090	22,690	35,000	56,530	85,010	134,530	
Taxable Buildings	68,830	79,690	173,390	220,920	248,360	443,385	606,840	
Taxable Business	14,390	9,520	26,740	26,460	48,490	79,470	95,800	
Total Assessment of Non-Right-of-Way Properties	95,780	102,300	222,820	282,380	353,380	607,865	837,170	
Total Tax Assessment	163,300	185,090	314,800	336,450	462,670	765,265	958,120	
Per Cent of Tax Assessment derived from R.O.W. Properties	41.3	44.7	29.2	16.1	23.6	20.6	12.6	

See footnotes at end of table

(continued)

TABLE 11. PROPERTY TAX ASSESSMENT FOR COMMUNITIES IN THE STUDY AREA, 1971 (concluded)

	Towns		Greater Towns		
	Kyle	Eston	Rosetown	Kindersley	
- dollars -					
<i>Right-of-Way Properties</i>					
Railway Property					
Roadway	3,160	7,450	23,780		11,000
Other Land	4,510	16,210	44,450		40,210
Buildings	3,290	6,040	13,180		39,910
Business	100	2,050	8,720		8,720
Other Property					
Taxable Land	5,630	16,880	60,360		48,760
Taxable Buildings	62,500	150,870	316,830		246,950
Taxable Business	17,490	50,830	85,010		161,780
Total Assessment of R.O.W. Properties	96,680	250,330	552,330		557,330
<i>Non-Right-of-Way Properties</i>					
Taxable Land	147,850	412,460	1,020,370		1,631,280
Taxable Buildings	628,430	1,523,590	2,817,390		3,987,500
Taxable Business	109,960	253,950	690,450		807,560
Total Assessment of Non-Right-of-Way Properties	886,240	2,190,000	4,528,210		6,426,340
Total Tax Assessment	982,920	2,440,330	5,080,540		6,983,670
Per Cent of Tax Assessment derived from R.O.W. Properties	9.8	10.3	10.9		8.0

R.O.W. - Right-of-Way

Source: Saskatchewan Department of Municipal Affairs, Regina.

Carload Rail Traffic

The volume of rail traffic to and from a community is another indicator of economic activity, although truck traffic should also be considered to obtain a more complete picture. Generally speaking, the more people and service activities there are in a community the more freight traffic is generated. Grain shipments at a particular delivery point depend on such inter-related factors as: size of hinterland, number of permit holders, crop yield and grain marketings in general (exports) and grain marketings from that delivery point in particular.

Table 12 shows the number of carloads shipped in and out of each delivery point in the study area for the years 1960 to 1970. The type of traffic is broken down into five broad categories and again communities are listed in the order of rank first established in Table 1.

Delivery points too small to classify had very little traffic. What traffic there was generally declined over time and was virtually all accounted for by outbound grain traffic. In 1970 Beadle had by far the most number of cars; namely, 302 cars outbound. The next highest number was 173 cars at Anerley. At those delivery points where the grain elevator has closed rail traffic has ceased altogether.

Outbound shipments of grain also predominated rail traffic of hamlets with only a sprinkling of cars (largely inbound) carrying products of mines, forests and manufactures. Of times outbound manufacturers and miscellaneous traffic is made up simply of scrap iron. Total carload movements at hamlets in 1970 ranged from 41 at Greenan to 449 at Richlea. All but five hamlets had movements in excess of 100 cars.

Total carload movements in and out of villages in 1970 ranged from 125 at Macrorie to 423 at Brock. Again, outbound grain shipments predominated; however, there were also more shipments in the other four commodity groups than observed at smaller centers. The general trend appears to be slightly upward.

The traffic pattern for towns and greater towns remains essentially the same as for hamlets and villages; namely, that outbound grain is the most important, that traffic out greatly exceeds traffic in, and that inbound traffic is made up of a variety of products like coal, lumber and building supplies, fertilizer, fuel oil, agricultural supplies and machinery. Livestock loading facilities were observed at Mildred and Dinsmore (Table 3), however, a volume of animals and products traffic in the last ten years, at all points in the study area, has been very low or nil. Of course, traffic volume is higher in towns and greater towns than in smaller centers. In 1970 total movements ranged from 307 cars at Kyle to 1,120 cars at Rosetown.

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Too Small to Classify																						
Pym																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Surbiton																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Glen Payne ^a																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Saltburn																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Lille																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						

- carloads -

(continued)

See footnotes at end of table

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Chipperfield																						
Products of Agriculture																						
Animals and Products						42				60		25		37		28		21		13		
Products of Mines	n.a.		n.a.				n.a.															
Products of Forests																						
Manufactures and Misc.					1																	
Total					1	42				60		25		37		28		21		13		
Verendrye																						
Products of Agriculture																						
Animals and Products						56		59				58		66		22		22		14		3
Products of Mines									n.a.													
Products of Forests																						
Manufactures and Misc.																						
Total	50			78		56		59				58		66		22		22		14		3
Gaines																						
Products of Agriculture																						
Animals and Products						70				81		31		102		61		44		42		35
Products of Mines	n.a.		n.a.				n.a.															
Products of Forests																						
Manufactures and Misc.						1																
Total						71				81		31		103		61		44		43		35
Mondou																						
Products of Agriculture																						
Animals and Products						42				98		27		74		43		43		27		67
Products of Mines							n.a.															
Products of Forests																						
Manufactures and Misc.																						
Total						42				98		27		74		43		43		27		67
Inglenook																						
Products of Agriculture																						
Animals and Products						86		77				76		75		49		42		44		55
Products of Mines									n.a.													
Products of Forests																						
Manufactures and Misc.																						
Total	81			66		86		77				76		75		49		42		44		55

See footnotes at end of table (continued)

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Penkill																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	-	-	-	3	-	3	-	3	-	-	-	-	-	-	-	-	-
Total					-	-	-	-	3	101	3	67	3	119	-	71	-	54	-	34	-	3
Sandgren																						
Products of Agriculture	-	59	-	64	-	98	-	76	-	-	-	79	-	90	-	76	-	57	-	46	-	64
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Total	-	59	-	64	-	98	-	77	-	-	-	79	-	91	-	76	-	57	-	46	-	64
Witley																						
Products of Agriculture	-	67	-	83	-	-	-	64	-	-	-	74	-	103	-	44	-	45	-	34	-	45
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	n.a.	-	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1
Total	-	67	-	83	-	-	-	64	-	-	1	74	-	105	-	44	-	45	-	34	-	46
Fortune																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total					-	116	-	-	-	165	-	89	-	125	-	100	-	67	-	61	-	97
Juniper																						
Products of Agriculture	-	85	-	92	-	79	-	102	-	-	-	69	-	68	-	85	-	57	-	56	-	65
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	85	-	92	-	79	-	102	-	-	-	69	-	68	-	85	-	57	-	56	-	65

(continued)

See footnotes at end of table

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Bratton																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Glamis																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Tuberose																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Bickleigh																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Snipe Lake																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						

(continued)

See footnotes at end of table

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Greenan																						
Products of Agriculture	-	33	-	43	-	37	-	55			-	48	-	63	-	66	-	33	-	50	-	41
Animals and Products	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	3	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-			-	-	1	-	1	-	-	-	-	-	-	-
Total	3	33	-	43	-	37	-	55			-	48	1	63	1	66	-	33	-	50	-	41
Isham																						
Products of Agriculture	-	240	-	167			-	174			-	189	-	259	-	201	-	158	-	191	-	227
Animals and Products	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	1	-	1	-	n.a.		-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	2			3	-	-	2	-	-	-	1	-	2	-	-
Total	1	240	1	167			-	176			3	189	-	261	-	201	-	159	-	193	-	227
McGee																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.									
Products of Forests																						
Manufactures and Misc.																						
Total																						
Sanctuary																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.																			
Products of Forests																						
Manufactures and Misc.																						
Total																						
Tyner																						
Products of Agriculture	-	188	-	169			-	156			-	147	-	223	-	290	-	165	-	228	-	233
Animals and Products	-	-	-	-			-	-			-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	n.a.		-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-		-	-			-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-		-	-			-	-	-	-	-	-	-	-	-	-	-	-
Total	-	188	-	169			-	157			-	147	-	223	-	290	-	166	-	228	-	233

(continued)

See footnotes at end of table

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Richlea																						
Products of Agriculture	1	249	-	351	-	345	-	282	-	257	-	423	-	281	-	196	-	278	-	448	-	448
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	1	-	2	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	1	-	1	-	2	-	4	-	-	6	-	6	-	5	1	5	-	1	-	1	-	-
Total	4	249	2	351	4	345	13	282	-	6	257	6	423	5	282	5	196	1	278	1	448	1
Wartime																						
Products of Agriculture	-	106	-	93	-	158	-	85	-	33	-	172	-	192	-	121	-	151	-	256	-	256
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	1	-	1	-	-	-	-	3	-	3	-	4	-	1	1	1	-	-	-	-
Total	-	106 ^b	1	93 ^b	4	158	-	85 ^b	1	33 ^c	3	172	3	192	4	122	1	151	-	256	-	256
Forgan																						
Products of Agriculture	-	210	-	215	-	280	-	193	-	196	-	239	-	264	-	176	-	159	-	301	-	301
Animals and Products	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	2	-	3	-	1	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	1	-	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	2	-	-	-	-	2	-	4	1	1	-	-	-	-	-	-
Total	3	210	4	215	5	280	2	195	-	198	-	243	4	265	1	176	-	159	-	301	-	301
D'Arcy																						
Products of Agriculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.	-	n.a.	-	n.a.	-	n.a.	-	n.a.	-	n.a.	-	n.a.	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Villages																						
Bounty																						
Products of Agriculture	-	-	-	-	1	138	-	-	-	196	-	189	-	127	-	118	-	97	-	159	-	159
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	-	-	-	-	2	-	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	n.a.	-	n.a.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	3	138	-	-	-	196	-	192	-	127	-	120	-	98	-	161	-	161

See footnotes at end of table (continued)

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Hughton																						
Products of Agriculture	-	228	-	166	-	238	-	158			-	216	-	221	-	321	-	172	-	189	-	378
Animals and Products	-	-	-	-	-	38	-	119			-	70	-	34	-	50	-	30	-	-	-	-
Products of Mines	3	-	1	-	1	-	-	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	10	-	-	-	3	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	4	-	4	-	1	-	2	-			22	6	18	1	12	1	17	1	15	1	1	-
Total	17	228	5	166	5	276	4	277			22	292	18	256	12	372	17	203	15	190	1	378
Glidden																						
Products of Agriculture	-	226	1	239	-	280	-	250			-	198	-	272	-	243	-	217	-	219	-	300
Animals and Products	-	2	-	4	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	6	-	6	-	5	-	4	-	n.a.		2	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	3	-	-	-			7	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	-	-	-	-	1	-	1	1			1	-	-	1	4	-	-	2	-	-	-	1
Total	6	228	7	244	9	280	5	251			10	198	-	273	4	243	-	219	-	219	-	301
Netherhill																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.									
Products of Forests																						
Manufactures and Misc.																						
Total																						
Madison																						
Products of Agriculture	-	322	-	372	-	393	-	321			-	340	-	383	-	307	-	248	-	239	-	343
Animals and Products	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	2	-	1	-	1	-	1	-	n.a.		-	-	-	-	-	-	-	-	-	-	-	-
Products of Forests	-	-	-	-	-	-	-	-			4	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.	32	-	30	-	26	2	26	1			22	-	14	2	4	-	2	2	2	-	-	-
Total	34	322	31	372	27	395	27	322			26	340	14	385	4	307	2	250	2	239	-	343
Fiske																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.									
Products of Forests																						
Manufactures and Misc.																						
Total																						

See footnotes at end of table (continued)

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Macrorie																						
Products of Agriculture																						
Animals and Products																						
Products of Mines													n.a.									
Products of Forests																						
Manufactures and Misc.																						
Total																						
Plato																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
White Bear																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Stewart Valley																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
Lacadena																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						

(continued)

See footnotes at end of table

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Sovereign																						
Products of Agriculture					-	263			-	305	-	179	-	297	-	247	-	158	-	175	-	320
Animals and Products					-	3			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		6	-	n.a.		2	-	1	-	1	-	-	-	-	-	-	-	-	-
Products of Forests					-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manufactures and Misc.					2	1			3	1	4	-	3	1	8	-	-	-	2	1	-	-
Total					8	267			5	306	5	179	4	298	8	247	-	158	2	176	-	320
Wiseton																						
Products of Agriculture	-	265	-	237	-	286	-	229	-	-	-	255	-	297	-	330	-	245	-	240	-	387
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	9	-	5	-	6	-	5	-	n.a.	-	4	-	1	-	-	-	-	-	-	-	-	-
Products of Forests	5	-	-	-	2	-	2	-	-	-	1	-	3	-	2	-	1	-	-	-	2	-
Manufactures and Misc.	2	-	2	-	2	-	4	3	-	-	3	-	7	3	6	-	4	3	2	1	1	2
Total	16	265	7	237	10	286	11	232	-	-	8	255	11	300	8	330	5	248	2	241	3	389
Brock																						
Products of Agriculture																						
Animals and Products																						
Products of Mines	n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		1	-	1	-	2	-	2	-
Products of Forests															-	-	-	-	-	-	-	-
Manufactures and Misc.					31	-			37	2	29	-	27	-	65	-	44	-	37	1	44	1
Total					43	324			42	384	37	241	32	463	66	290	45	161	39	210	46	377
Towns																						
Milden																						
Products of Agriculture					2	323			-	381	-	241	1	462	-	330	-	278	-	235	-	483
Animals and Products					-	1			-	1	-	-	-	1	-	3	-	2	-	-	-	1
Products of Mines					8	-			5	-	7	-	3	-	-	-	2	-	1	-	-	-
Products of Forests	n.a.		n.a.		2	-			-	-	1	-	1	-	1	-	-	-	-	-	1	-
Manufactures and Misc.					31	-			37	2	29	-	27	-	45	2	32	2	150	3	33	4
Total					43	324			42	384	37	241	32	463	46	335	34	282	151	238	34	488
Dinsmore																						
Products of Agriculture	-	393	5	480	-	373	-	530			-	434	1	438	7	518	-	353	2	338	3	616
Animals and Products	-	1	-	3	-	16	-	3			-	4	-	-	-	2	-	-	-	1	-	-
Products of Mines	11	-	11	-	9	-	6	-	n.a.		5	-	3	-	2	-	2	-	2	-	-	-
Products of Forests	16	-	3	-	1	-	-	-			1	-	10	-	2	-	1	-	-	-	-	-
Manufactures and Misc.	92	-	63	-	63	-	87	3			92	1	111	6	86	-	76	1	63	1	7	-
Total	119	394	82	483	73	389	93	536			98	439	125	444	97	520	79	354	67	340	10	616

See footnotes at end of table (continued)

TABLE 12. REVENUE CARLOAD RAIL TRAFFIC BY DELIVERY POINT IN THE STUDY AREA, 1960-70 (continued)

Delivery Point	1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
- carloads -																						
Elrose																						
Products of Agriculture	-	278	12	261	-	215	-	191			-	239	-	312	-	327	-	219	-	220	-	411
Animals and Products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	6	-	3	-	3	-	1	n.a.			1	-	1	-	1	-	-	-	-	-	-	-
Products of Forests	7	-	16	-	6	-	1	-			3	-	8	-	5	-	1	-	3	-	1	-
Manufactures and Misc.	61	1	66	-	57	-	67	-			57	-	58	-	62	-	50	-	49	-	5	-
Total	74	279	97	261	66	215	69	191			61	239	67	312	68	327	51	219	52	220	6	411
Kyle																						
Products of Agriculture					-	328			-	390	-	254	-	534	-	448	-	229	-	249	-	297
Animals and Products					-	-			-	1	-	-	-	1	-	-	-	-	-	-	-	-
Products of Mines	n.a.		n.a.		4	-	n.a.		2	-	1	-	-	-	-	-	-	-	-	-	-	-
Products of Forests					4	-			6	-	4	-	5	-	5	-	2	-	2	-	3	1
Manufactures and Misc.					21	1			18	-	12	-	13	3	23	-	9	3	8	2	6	-
Total					29	329			26	391	17	254	18	538	28	448	11	232	10	251	9	298
Greater Towns																						
Eston																						
Products of Agriculture	11	422	8	403	11	496	7	447			3	366	4	610	1	463	-	371	-	395	-	589
Animals and Products	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Products of Mines	7	-	7	-	3	-	4	-	n.a.		5	-	-	-	3	-	3	-	2	-	2	-
Products of Forests	22	-	17	-	15	-	19	-			11	-	-	-	12	-	14	-	12	-	8	-
Manufactures and Misc.	105	2	111	-	92	1	103	-			118	4	198	-	157	3	157	2	134	1	64	3
Total	145	429	143	403	121	497	133	447			137	370	202	610	173	466	174	373	148	396	74	592
Rosetown (C.P.R.)																						
Products of Agriculture					5	259			5	290	6	334	3	452	9	386	11	286	11	323	7	639
Animals and Products					-	-			-	1	-	-	-	-	-	-	-	1	-	-	-	-
Products of Mines					5	2			6	-	6	-	7	-	6	-	3	1	2	-	-	-
Products of Forests					28	2			27	-	36	-	20	-	16	-	17	-	13	-	14	-
Manufactures and Misc.					120	1			116	4	104	1	98	2	91	5	44	2	31	5	5	2
Total					158	264			154	295	152	335	128	454	122	391	75	290	57	328	26	641
Rosetown (C.N.R.)																						
Products of Agriculture																						
Animals and Products																						
Products of Mines																						
Products of Forests																						
Manufactures and Misc.																						
Total																						
See footnotes at end of table																						

(continued)

Highway Transportation Services

Truck traffic data similar to railway carload traffic showing volume of traffic to and from each community was not available but most communities are served by one or more trucking companies. The names of for-hire common and contract carriers servicing each center are listed in Table 13. Excluded from this list are, of course, farm trucks as well as specialized carriers, private urban and private intercity truckers.

Beadle was the only community too small to classify with a trucking service while 9 out of the 16 hamlets were served by truckers. All remaining centers in the study area, except the village of Hughton, were served by for-hire carriers.

TABLE 13. TRUCK SERVICES BY COMMUNITY, 1971

Delivery Point	For-hire Carriers						
	Kindersley Transport Ltd.	Canadian National	C.P. Transport	Black's Trans- port	Rosetown Expressway Ltd.	Soo- Security Motorways Ltd.	Sask. Trans- portation Co.
<i>Too Small to Classify</i>							
Beadle	X						
<i>Hamlets</i>							
Snipe Lake	X	X					
Greenan		X		X			X
Isham				X			
McGee	X	X					
Sanctuary				X			
Tyner				X			
Richlea		X		X			
Wartime		X		X			X
D'Arcy	X	X					
<i>Villages</i>							
Bounty			X				X
Glidden	X	X					X
Netherhill	X	X					X
Madison	X	X					
Fiske	X	X					
Macrorie		X					
Plato		X		X			
White Bear				X			
Stewart Valley				X			
Lacadena		X		X			
Sovereign			X				
Wiseton		X					X
Brock	X	X					
<i>Towns</i>							
Milden			X				X
Dinsmore		X					X
Elrose				X			X
Kyle				X			X
<i>Greater Towns</i>							
Eston	X	X		X			X
Rosetown		X	X		X	X	X
Kindersley	X	X					X

Source: Saskatchewan Shippers' Directory, 1971.

PART II

AGRICULTURAL CHARACTERISTICS

Soil Capability for Agriculture

The study area encompasses in excess of 3.0 million acres. The main physiographic regions of the area are the Saskatchewan Rivers Plain, extending north and east of Elrose-Rosetown; the Missouri Coteau Upland, manifested by the Beechy Hills south of Dinsmore and the Bad Hills and Mondou Hills south of McGee and Greenan; and the Snipe Lake Plain in the west.¹ The Rosetown subsection of the Saskatchewan Rivers Plain lies within the Second Prairie Steppe with an elevation of under 2,200 feet. The rising landforms of the Missouri Coteau mark the beginning of the Third Prairie Steppe with elevations up to approximately 2,500 feet in the Beechy Hills.

Soils of the Snipe Lake Plain and the Saskatchewan Rivers Plain are largely Class 2 which have only moderate limitations and as such can support a wide range of agricultural crops. These are the best soils in the study area. Limitations of Class 3 soils are more severe but many of them can, at least in part, be overcome by good management practices. The remainder of the soils in the study area, particularly those of the Missouri Coteau, fall into Classes 4, 5 and 6 which have severe to very severe limitations and for the most part are suited only for production of perennial forage crops.

Surface drainage for about 80 per cent of the area is very local, collecting into potholes, undrained lakes, depressions or glacial valleys. The only significant external drainage is provided by the South Saskatchewan River to the south and east and by Eagle Creek to the north.

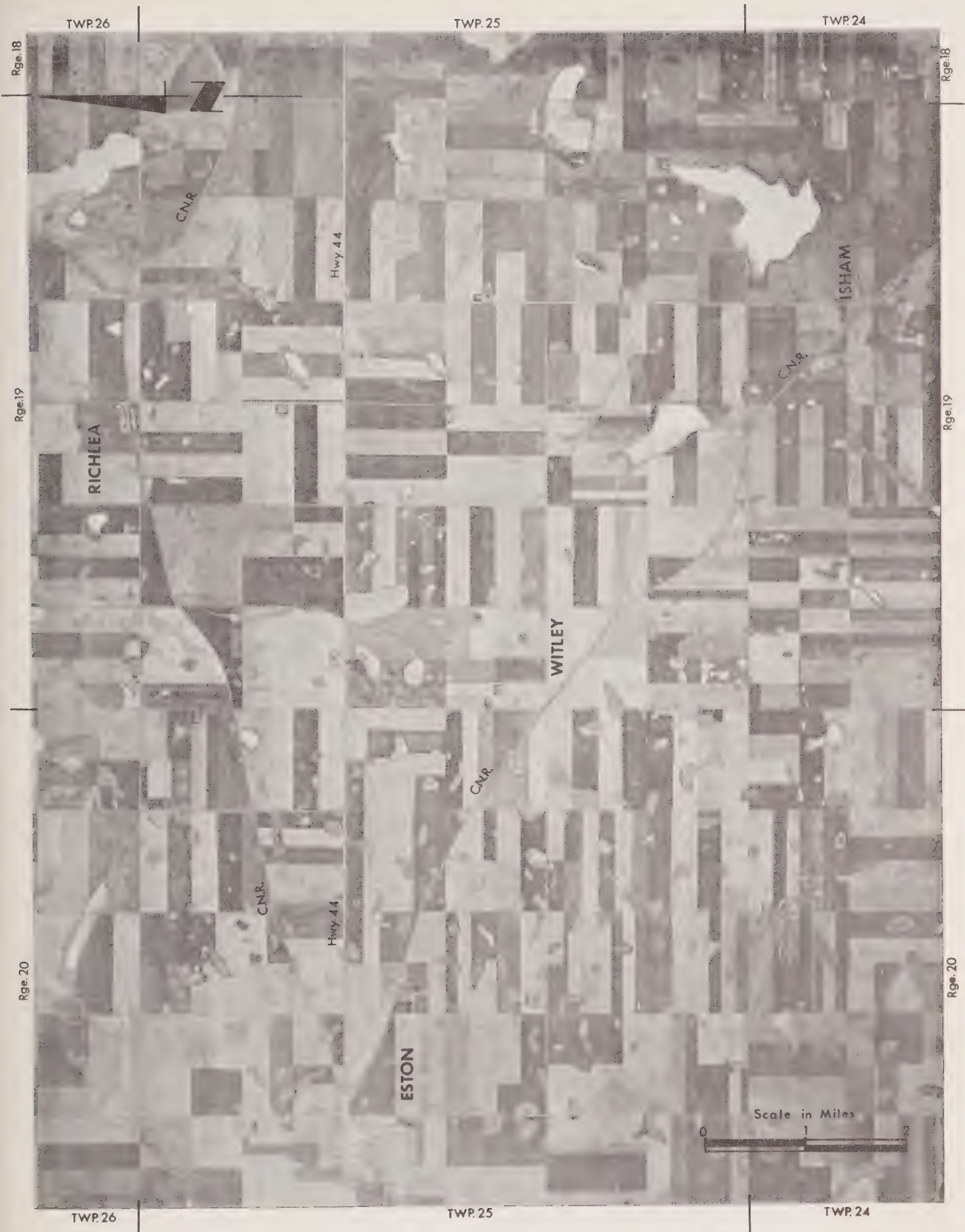
¹For a more detailed description of topography and soil capability in the area see the two Canada Land Inventory maps, Kindersley and Rosetown inserted into the envelope inside the back cover. See also J.H. Richards and K.I. Fung, Atlas of Saskatchewan, Saskatoon: University of Saskatchewan, 1969.

Sample Aerial Photos

Figures 1 and 2 show aerial photos of the Eston and Wartime areas respectively. These photos were taken in the summer of 1970 for use by the Prairie Farm Assistance Administration in their involvement with Operation LIFT. The purpose of including these photos is simply by way of example to show the kind of aerial photos that are available of the entire Prairie region. Landmarks such as communities, railroads and highways have been identified on the figures.

It is interesting to compare these photos to the soil capability maps referred to earlier and to Saskatchewan soil survey maps.¹ The gently undulating topography at Eston is marked by numerous shallow depressions and sloughs. The strongly rolling topography, unsuitable for cultivation, of the Mondou Hills is clearly visible on the Wartime area photo. Whitebear Lake appears in the lower righthand corner of Figure 2.

¹Soil Survey of Southern Saskatchewan, Report No. 12, University of Saskatchewan, Saskatoon, June, 1944.



AERIAL VIEW OF ESTON AREA

Figure 1



AERIAL VIEW OF WARTIME AREA

Figure 2

Temperature Norms and Extremes

Temperature norms and extremes within and near the study area are shown in Table 14. Outlook is 22 miles east of Milden, just east of the Saskatchewan River and Leader is 42 miles southeast of Glidden, just south of the Saskatchewan River.

The July mean daily temperatures range from 65.9°F at Rosetown to 68.1°F at Leader while January values range from 2.3°F to 5.5°F corresponding to the same two locations. Rosetown also recorded the highest temperature, 111°F in July, while Outlook recorded the lowest reading of -62°F in February. The climate, therefore, is continental with warm summers and cold winters.

The annual average growing season averages from 173-183 days of which 100-110 make up the average frost-free period.

TABLE 14. TEMPERATURE NORMS AND EXTREMES FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
	- degrees Fahrenheit -												
Rosetown													
Mean Daily Maximum ^a	11.4	15.3	28.1	49.3	65.5	72.2	79.4	77.3	66.2	53.5	32.0	18.9	47.5
Mean Daily Minimum ^a	-6.8	-5.3	8.9	26.3	38.7	46.4	52.4	48.7	40.2	27.9	13.6	0.3	24.3
Mean Daily Temperature ^a	2.3	5.0	18.5	37.8	52.1	59.3	65.9	63.0	53.2	40.7	22.8	9.6	35.9
Maximum Temperature ^b	50	47	65	96	93	108	111	110	95	92	71	61	111
Minimum Temperature ^b	-53	-44	-36	-19	10	28	27	28	7	-8	-25	-42	-53
Kindersley													
Mean Daily Maximum ^a	13.6	17.4	29.4	50.2	65.3	71.8	79.8	76.4	66.1	53.8	33.4	20.7	48.2
Mean Daily Minimum ^a	-4.2	-2.2	10.0	26.6	38.5	46.6	52.4	49.6	39.9	28.6	13.8	2.7	25.2
Mean Daily Temperature ^a	4.7	7.6	19.7	38.4	51.9	59.2	66.1	63.0	53.0	41.2	23.6	11.7	36.7
Maximum Temperature ^c	44	47	69	94	102	105	107	104	98	91	74	55	107
Minimum Temperature ^c	-46	-46	-55	-22	4	20	24	28	10	-19	-25	-36	-46
Hughton													
Mean Daily Maximum ^a	13.6	16.6	30.0	51.1	66.1	72.7	80.9	78.5	67.5	54.4	33.9	21.0	48.8
Mean Daily Minimum ^a	-4.0	-1.6	11.2	27.7	39.7	47.3	53.5	49.7	41.7	30.2	15.3	3.8	26.2
Mean Daily Temperature ^a	4.8	7.5	20.6	39.4	52.9	60.0	67.2	64.1	54.6	42.3	24.6	12.4	37.5
Maximum Temperature ^d	52	54	68	95	92	106	105	104	95	90	71	64	106
Minimum Temperature ^d	-48	-43	-35	-19	10	29	34	33	14	-9	-24	-41	-48
Outlook													
Mean Daily Maximum ^e	12.8	16.9	29.4	51.0	66.6	72.9	81.1	78.1	66.7	53.9	32.4	20.5	48.5
Mean Daily Minimum ^e	-5.9	-1.8	10.5	28.1	40.1	48.2	53.9	50.3	41.1	30.0	14.5	2.7	26.0
Mean Daily Temperature ^e	3.5	7.6	20.0	39.6	53.4	60.6	67.5	64.2	53.9	42.0	23.5	11.6	37.3
Maximum Temperature ^f	51	58	68	93	99	106	106	103	95	91	71	61	106
Minimum Temperature ^f	-51	-62	-51	-16	13	21	32	30	10	-20	-30	-39	-62
Leader													
Mean Daily Maximum ^g	15.3	19.9	32.3	53.5	68.0	74.1	83.9	80.7	69.3	56.1	35.0	23.0	50.9
Mean Daily Minimum ^g	-4.4	-0.5	11.8	28.2	39.4	46.8	52.3	49.4	40.4	29.7	14.7	4.1	26.0
Mean Daily Temperature ^g	5.5	9.7	22.1	40.9	53.7	60.5	68.1	65.1	54.9	42.9	24.9	13.6	38.5
Maximum Temperature ^h	59	60	70	94	101	106	106	106	97	93	73	67	106
Minimum Temperature ^h	-52	-54	-36	-20	13	27	29	28	11	-13	-30	-43	-54

^aNorms are for a full ten-year period of record ending in the early 1960's. No adjustment factor used.

^bExtremes are for 20-29 years.

^cExtremes are for 50-59 years.

^dExtremes are for 30-39 years.

^eNorms are for a period of 25 years in the period 1931-1960. In most cases the record existed over the full 30 years.

^fExtremes are for 40-49 years.

^gSame as (e) but not as reliable.

Source: Canada Department of Transport, Meteorological Branch, Toronto, Ontario.

Precipitation

Table 15 shows monthly and annual precipitation averages in terms of rainfall, snowfall and total at five meteorological stations. Annual average precipitation ranges from 11.5 to 13.3 inches with 64.5 to 70.5 per cent (Leader and Kindersley) of it occurring in the five-month period May to September. June is the single highest precipitation month. Approximately 75 per cent of annual precipitation is in the form of rain.

TABLE 15. MONTHLY AND ANNUAL AVERAGE PRECIPITATION FOR SPECIFIED METEOROLOGICAL STATIONS

Meteorological Station	January	February	March	April	May	June	July	August	September	October	November	December	Year
- inches -													
Rosetown													
Mean Rainfall ^a	0.00	0.01	0.03	0.54	1.20	2.51	2.25	1.65	1.26	0.48	0.08	0.04	10.05
Mean Snowfall ^a	6.1	4.6	4.7	3.6	0.2	0.0	0.0	0.0	0.3	3.0	4.6	5.7	32.8
Mean Total Precipitation ^b	0.61	0.47	0.50	0.90	1.22	2.51	2.25	1.65	1.29	0.78	0.54	0.61	13.33
Kindersley													
Mean Rainfall ^c	0.01	0.01	0.04	0.43	0.93	2.21	1.84	1.87	1.15	0.37	0.14	0.01	9.01
Mean Snowfall ^c	4.1	3.4	4.3	2.8	0.2	0.0	0.0	0.0	1.1	2.2	3.3	3.9	25.3
Mean Total Precipitation ^b	0.42	0.35	0.47	0.71	0.95	2.21	1.84	1.87	1.26	0.59	0.47	0.40	11.54
Hughton													
Mean Rainfall ^c	0.00	0.01	0.05	0.61	1.28	2.31	1.97	1.35	1.10	0.56	0.13	0.01	9.38
Mean Snowfall ^c	5.5	6.0	5.4	2.0	0.1	0.0	0.0	0.0	0.1	2.3	3.6	5.3	30.3
Mean Total Precipitation ^b	0.55	0.61	0.59	0.81	1.29	2.31	1.97	1.35	1.11	0.79	0.49	0.54	12.41
Outlook													
Mean Rainfall ^a	0.03	0.01	0.03	0.39	1.23	2.59	1.90	1.34	1.15	0.41	0.07	0.01	9.16
Mean Snowfall ^a	4.8	4.6	4.6	2.1	0.1	0.0	0.0	0.0	0.1	1.6	3.2	4.3	25.4
Mean Total Precipitation ^b	0.51	0.47	0.49	0.60	1.24	2.59	1.90	1.34	1.16	0.57	0.39	0.44	11.70
Leader													
Mean Rainfall ^a	0.01	0.01	0.03	0.56	1.14	2.51	1.63	1.39	1.04	0.49	0.07	0.01	8.89
Mean Snowfall ^a	5.4	4.5	6.4	3.1	0.2	0.0	0.0	0.0	0.7	2.3	4.8	4.6	32.0
Mean Total Precipitation ^b	0.55	0.46	0.67	0.87	1.16	2.51	1.63	1.39	1.11	0.72	0.55	0.47	12.09

^aNorms were computed directly from a period of record of 25 to 30 years within the period 1931 to 1960. In most cases, the record existed over the full 30 years.

^bTotal precipitation measured in inches of rain. Ten inches of snow equals one inch of rain.

^cThese averages are based on a period of 10 to 24 years during the period 1931 to 1960. No adjustment factor has been used.

Source: Canada Department of Transport, Meteorological Branch, Toronto, Ontario.

Hail Insurance

Information regarding annual number of claims filed and amounts of indemnity paid by rural municipality is presented in Table 16, as experienced by Saskatchewan Municipal Hail Insurance Association. Over the nine-year period 1962-70, the average number of claims per year in the 13 R.M.'s ranged from a low of 13 claims in Victory to a high of 73 claims in Snipe Lake.¹ The lowest number of claims occurred in 1967, when an average of 18 claims were filed in each R.M.; and the highest number occurred in 1969, when an average of 49 claims were filed in each R.M. The overall average number of claims filed in each R.M. per year was 39.

The pattern of claims filed is reflected in the amounts of indemnity paid out during the same time period but with some variation. Again, Snipe Lake had the highest nine-year average indemnity (\$49,918) but the R.M. of King George, with an average of 31 claims, showed a lower average indemnity amount (\$6,578) than Victory (\$6,992 paid on an average of 13 claims). The year with the lowest average number of claims did not correspond to the year with the lowest average amount of indemnity paid; and nor did the year with the highest average number of claims correspond to the year with the highest average indemnity payment. Average indemnity was lowest in 1968 and highest in 1963. The overall average amount of indemnity paid in each R.M. per year was \$20,126.

¹This does not necessarily imply that Snipe Lake is a higher hail-risk area than Victory because number of claims filed in a rural municipality also depends on the number of crop-acres insured.

TABLE 16. SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED AND AMOUNT OF INDEMNITY PAID IN THE STUDY AREA, 1962 TO 1970

Rural Municipality	1962	1963	1964	1965	1966	1967	1968	1969	1970	Avg./Yr.
167. Saskatchewan Landing										
No. Claims	23	Nil	23	20	48	3	14	79	31	27
Indemnity Paid	\$ 9,734	Nil	3,907	5,352	5,223	196	5,320	57,280	13,798	11,201
226. Victory										
No. Claims	40	8	6	11	8	5	4	33	1	13
Indemnity Paid	\$ 17,564	1,152	3,853	1,149	1,762	1,231	427	35,422	372	6,992
228. Lacadena										
No. Claims	103	41	1	77	17	4	8	92	32	42
Indemnity Paid	\$ 65,720	16,437	60	45,997	3,277	1,873	2,780	79,420	11,775	25,260
255. Coteau										
No. Claims	119	47	23	130	61	7	87	46	12	59
Indemnity Paid	\$ 24,408	14,345	4,772	39,225	32,761	2,646	28,040	7,583	2,669	17,383
256. King George										
No. Claims	67	12	16	48	59	Nil	32	1	44	31
Indemnity Paid	\$ 13,097	2,390	4,290	6,808	16,031	Nil	6,889	32	9,669	6,578
257. Monet										
No. Claims	50	57	34	36	109	48	31	11	72	50
Indemnity Paid	\$ 8,906	20,474	16,995	9,295	114,350	29,902	8,940	2,075	25,515	26,272
259. Snipe Lake										
No. Claims	28	160	82	23	22	83	4	163	88	73
Indemnity Paid	\$ 7,785	87,514	86,754	2,555	9,007	95,118	569	126,444	33,516	49,918
260. Newcombe										
No. Claims	24	68	2	28	48	48	16	33	46	35
Indemnity Paid	\$ 8,089	33,461	8,257	8,543	16,071	27,955	1,244	12,686	12,539	14,316
285. Fertile Valley										
No. Claims	50	86	29	49	20	7	25	7	79	39
Indemnity Paid	\$ 12,567	13,057	9,045	18,806	6,829	1,256	5,480	1,220	28,237	10,721

(continued)

TABLE 16. SASKATCHEWAN MUNICIPAL HAIL INSURANCE: NUMBER OF CLAIMS FILED AND AMOUNT OF INDEMNITY PAID IN THE STUDY AREA, 1962 TO 1970 (concluded)

Rural Municipality	1962	1963	1964	1965	1966	1967	1968	1969	1970	Avg./Yr.
286. Milden										
No. Claims	34	100	55	46	19	4	61	36	47	45
Indemnity Paid	\$ 4,323	28,679	77,412	17,422	4,516	848	37,560	28,575	27,762	25,233
287. St. Andrews										
No. Claims	38	81	34	45	2	18	51	51	32	39
Indemnity Paid	\$ 11,692	46,549	35,292	34,983	Nil	2,089	43,246	58,545	11,739	27,126
288. Pleasant Valley										
No. Claims	33	33	14	21	26	Nil	25	41	17	23
Indemnity Paid	\$ 15,866	6,574	3,895	5,223	7,280	Nil	9,115	26,072	4,310	8,704
290. Kindersley										
No. Claims	19	120	31	3	12	Nil	12	44	86	36
Indemnity Paid	\$ 2,616	195,438	6,196	517	5,674	Nil	3,844	28,656	44,416	31,929
Total Study Area										
Avg. No. Claims/R.M.	48	63	27	41	35	18	29	49	45	39
Avg. Indemnity Paid/R.M.	\$ 15,567	35,852	20,056	15,067	17,137	12,547	11,804	35,693	17,409	20,126

Source: Saskatchewan Municipal Hail Insurance Association, Regina, Saskatchewan.

Sales of Farm Land in the Study Area

An indication of farm land transactions in the study area is provided by data in Table 17. In the eight-year period 1963-70, 523 transactions were recorded involving an average of 324 acres per transaction. These transactions are representative in the sense that family and other types of deals involving concessions or a premium (e.g. farm land adjacent to a town and possibly purchased for non-agricultural use) were excluded from the tabulations.

Average prices increased from \$60.26 per acre in 1963 to a peak of \$104.83 per acre in 1968. The highest price paid, \$170.00 per acre, was also recorded in 1968. The two years following 1968 showed a marked drop both in price and in number of transactions so that the average price in 1970 was again down to the 1963 level.

Many factors enter into determining farm land values. Superficially, it would appear that at least the following three factors could be cited in explaining the observed price levels: soil classification or productivity, general inflation and the grain marketing situation. Class 1 or 2 land, for instance, is generally higher priced relative to Class 3 or 4. General economic inflation is in time reflected in rising land values. Finally, when grain markets keep pace with production there is an upward pressure on land values but when the supply of grain becomes too large relative to demand, the pressure on land values is downward. The latter situation occurred following that of 1968.

TABLE 17. REPRESENTATIVE LAND VALUES BY SALES PRICE PER ACRE, 1963 TO 1970

Year	Number of Transactions	Total Acreage	Price per Acre ^a		
			Low	High	Average
			\$	\$	\$
1963	50	19,214	17.73	105.00	60.26
1964	71	23,688	18.28	120.52	63.81
1965	95	31,230	15.93	148.43	79.71
1966	107	30,295	20.83	140.62	74.18
1967	81	26,591	20.87	145.20	73.79
1968	65	20,278	31.25	170.00	104.83
1969	37	12,220	31.63	150.00	94.72
1970	17	6,129	23.50	117.50	60.27

^aLess improvements.

Source: Farm Credit Corporation, Regina.

Disposition of Grain Farm Acreage

The number of acres associated with each delivery point and land use are shown in some detail for three crop years in Tables 18, 19 and 20. In total, between 1962-63 and 1969-70, farm acreage in the study area increased 53,844 acres or 2.2 per cent. At the same time specified acres increased by 329,694 acres or 18.3 per cent. Also, six delivery points too small to classify closed giving up 55,826 acres to neighboring points.

In general, smaller communities experienced decreased acreages while larger communities experienced increases.¹ All except three delivery points (Juniper, Anerley and Beadle) too small to classify decreased in size between 1962-63 and 1969-70, while nine hamlets, nine villages and all towns and greater towns increased.

Relatively little change occurred in the land use pattern between 1962-63 and 1969-70 in the total study area. Cropping practices followed a two or three-year rotation with about 40 per cent summerfallow, 40 per cent wheat (including durum) and the remaining 20 per cent in other crops and unimproved land. The largest relative changes occurred in acreages devoted to hard wheat, barley and flax. Wheat dropped 6.5 percentage points and barley and flax increased 3.6 and 2.7 percentage points respectively.

Substantial changes occurred, however, in the land use pattern in 1970-71 primarily as a result of the Federal Government's "Operation LIFT" program designed to reduce Canada's wheat surplus.² The greatest absolute changes from 1969-70 to 1970-71 occurred in hard spring wheat acreage which dropped by 369,602 acres or 67 per cent and in summerfallow which increased 244,405 acres or 24 per cent. The greatest relative change occurred in rapeseed acreage which increased five-fold. Flax acreage nearly doubled.

It should be noted that "specified acres" as such disappeared in the 1970-71 crop year under Operation LIFT; however, a subtotal in Table 20 of those same crops that comprised specified acres in 1969-70 is shown for comparison purposes. In the study area this acreage decreased 6.6 percentage points.

¹The interested reader may wish to compare this data with that contained in Tables 27 and 39 which show changes in numbers of delivery permits issued and average farm to elevator hauling distances.

²LIFT is an acronym derived from "Lower Inventory For Tomorrow".

TABLE 18. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified			Durum	Flax	Rapeseed	Other Crops	Uncult. Land	Total
							Acres (Subtotal)								
Too Small to Classify															
Pym	Closed														
Acres															
Per cent															
Surbiton															
Acres	3,414	293	375	-	4,192	75	8,349	774	99	-	-	-	1,746	10,968	
Per cent	31.1	2.7	3.4	-	38.2	0.7	76.1	7.1	0.9	-	-	-	15.9	100.0	
Glen Payne															
Acres	1,190	100	40	-	1,018	45	2,393	425	40	-	-	-	327	3,185	
Per cent	37.4	3.1	1.3	-	31.9	1.4	75.1	13.3	1.3	-	-	-	10.3	100.0	
Saltburn															
Acres	2,488	190	-	-	3,889	160	6,727	3,291	105	-	30	-	1,837	11,990	
Per cent	20.8	1.6	-	-	32.4	1.3	56.1	27.4	0.9	-	0.3	-	15.3	100.0	
Lille															
Acres	795	80	-	-	2,135	-	3,010	1,630	135	-	-	-	472	5,247	
Per cent	15.1	1.5	-	-	40.7	-	57.3	31.1	2.6	-	-	-	9.0	100.0	
Chipperfield															
Acres	3,652	205	710	-	5,317	320	10,204	1,465	250	-	-	-	1,760	13,679	
Per cent	26.7	1.5	5.2	-	38.9	2.3	74.6	10.7	1.8	-	-	-	12.9	100.0	
Verendrye															
Acres	3,697	284	275	-	4,499	310	9,065	980	65	-	-	-	647	10,757	
Per cent	34.4	2.6	2.6	-	41.8	2.9	84.3	9.1	0.6	-	-	-	6.0	100.0	
Gaines															
Acres	5,113	135	636	140	5,337	-	11,361	1,942	652	-	153	-	539	14,647	
Per cent	34.9	0.9	4.3	1.0	36.4	-	77.5	13.3	4.5	-	1.0	-	3.7	100.0	
Mondou															
Acres	4,592	200	350	-	6,484	265	11,891	2,800	385	-	-	-	4,029	19,105	
Per cent	24.0	1.1	1.8	-	33.9	1.4	62.2	14.7	2.0	-	-	-	21.1	100.0	
Inglenook															
Acres	4,752	295	475	-	6,382	158	12,062	1,126	340	-	15	-	941	14,484	
Per cent	32.8	2.0	3.3	-	44.1	1.1	83.3	7.8	2.3	-	0.1	-	6.5	100.0	
Penkill															
Acres	5,700	179	205	-	7,351	-	13,435	1,862	174	-	157	-	780	16,408	
Per cent	34.7	1.1	1.3	-	44.8	-	81.9	11.3	1.1	-	1.0	-	4.7	100.0	
Sandgren															
Acres	4,374	310	356	-	5,953	137	11,130	2,125	155	-	-	-	481	13,891	
Per cent	31.5	2.2	2.6	-	42.8	1.0	80.1	15.3	1.1	-	-	-	3.5	100.0	
Witley															
Acres	3,774	212	285	-	6,332	-	10,603	2,149	795	-	-	-	362	13,909	
Per cent	27.1	1.5	2.1	-	45.5	-	76.2	15.5	5.7	-	-	-	2.6	100.0	
Fortune															
Acres	9,056	676	883	-	10,877	376	21,868	1,519	1,080	10	-	-	409	24,886	
Per cent	36.4	2.7	3.6	-	43.7	1.5	87.9	6.1	4.3	0.0	-	-	1.7	100.0	

(continued)

TABLE 18. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Specified Acres		Durum	Flax	Rapeseed	Other Crops	Uncult. Land	Total
						Forage Crops	(Subtotal)						
Juniper Acres	7,295	655	290	-	8,114	66	16,420	957	20	-	1,210	6,356	24,963
Per cent	29.2	2.6	1.2	-	32.5	0.3	65.8	3.8	0.1	-	4.8	25.5	100.0
Tichfield Acres	9,809	857	477	-	11,801	374	23,318	1,215	80	-	70	7,368	32,051
Per cent	30.6	2.7	1.5	-	36.8	1.2	72.8	3.8	0.2	-	0.2	23.0	100.0
Anerley Acres	7,086	946	358	25	12,436	190	21,041	6,291	174	-	-	3,238	30,744
Per cent	23.0	3.1	1.2	0.1	40.4	0.6	68.4	20.5	0.6	-	-	10.5	100.0
Matador Acres	4,527	1,585	720	6	10,749	940	18,527	5,935	624	-	-	3,266	28,352
Per cent	16.0	5.6	2.6	0.0	37.9	3.3	65.4	20.9	2.2	-	-	11.5	100.0
Ridpath Acres	6,007	290	110	-	5,501	273	12,181	1,273	465	-	20	2,462	16,401
Per cent	36.6	1.8	0.7	-	33.5	1.7	74.3	7.8	2.8	-	0.1	15.0	100.0
Thrasher Acres	9,323	651	994	-	12,455	184	23,607	5,385	640	-	10	838	30,480
Per cent	30.6	2.1	3.3	-	40.9	0.6	77.5	17.7	2.1	-	0.0	2.7	100.0
Gunworth Acres	6,139	310	555	-	8,147	132	15,283	2,900	450	-	-	1,584	20,217
Per cent	30.4	1.5	2.7	-	40.3	0.7	75.6	14.4	2.2	-	-	7.8	100.0
Totnes Acres	7,003	290	428	-	9,981	55	17,757	2,335	360	-	100	1,326	21,878
Per cent	32.0	1.3	2.0	-	45.6	0.3	81.2	10.7	1.6	-	0.4	6.1	100.0
Beadle Acres	15,811	1,547	1,898	-	20,537	402	40,195	3,685	910	40	40	4,096	48,966
Per cent	32.3	3.2	3.9	-	41.9	0.8	82.1	7.5	1.8	0.1	0.1	8.4	100.0
<i>Hamlets</i>													
Leach Siding Acres	6,351	255	465	-	10,069	186	17,326	4,129	140	-	50	732	22,377
Per cent	28.4	1.1	2.1	-	45.0	0.8	77.4	18.5	0.6	-	0.2	3.3	100.0
McMorran Acres	10,322	1,018	966	100	14,400	160	26,966	3,427	1,455	-	75	2,414	34,337
Per cent	30.1	3.0	2.8	0.3	41.9	0.5	78.6	10.0	4.2	-	0.2	7.0	100.0
Bratton Acres	6,225	457	740	-	7,020	230	14,672	1,354	35	-	10	1,821	17,892
Per cent	34.8	2.6	4.1	-	39.2	1.3	82.0	7.6	0.2	-	0.0	10.2	100.0
Glamis Acres	14,736	764	596	-	17,973	298	34,367	4,462	2,525	-	20	736	42,110
Per cent	35.0	1.8	1.4	-	42.7	0.7	81.6	10.6	6.0	-	0.1	1.7	100.0
Tuberoose Acres	3,105	557	20	240	11,315	357	15,594	9,950	1,158	-	-	3,076	29,778
Per cent	10.4	1.9	0.1	0.8	38.0	1.2	52.4	33.4	3.9	-	-	10.3	100.0

(continued)

TABLE 18. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Specified Acres (Subtotal)										Total
	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Durum	Flax	Rapeseed	Other Crops	Uncult. Land
Bickleigh Acres	7,950	518	410	-	10,049	290	19,217	410	-	20	2,127
Per cent	34.1	2.2	1.8	-	43.2	1.2	82.5	1.8	-	0.1	9.1
Snipe Lake Acres	17,069	636	1,350	-	25,348	139	44,542	2,333	-	-	3,254
Per cent	28.4	1.1	2.2	-	42.2	0.2	74.1	3.9	-	-	5.4
Greenan Acres	4,302	325	65	-	5,268	90	10,050	160	-	50	4,079
Per cent	27.6	2.1	0.4	-	33.8	0.6	64.5	1.0	-	0.3	26.2
Isaham Acres	11,188	539	188	-	18,018	285	30,218	2,094	-	5	2,116
Per cent	26.2	1.3	0.4	-	42.2	0.7	70.8	4.9	-	0.0	4.9
McGee Acres	6,544	376	98	-	6,518	448	13,984	122	-	25	3,246
Per cent	36.7	2.1	0.6	-	36.5	2.5	78.4	0.7	-	0.1	18.2
Sanctuary Acres	9,718	1,305	296	-	21,478	306	33,103	328	-	-	5,320
Per cent	19.7	2.6	0.6	-	43.4	0.6	66.9	0.7	-	-	10.7
Tyner Acres	10,982	538	207	-	17,719	20	29,466	489	-	-	808
Per cent	29.1	1.4	0.5	-	47.0	0.1	78.1	1.3	-	-	2.1
Richlea Acres	19,441	455	510	-	25,799	290	46,495	1,980	-	-	428
Per cent	33.9	0.8	0.9	-	44.9	0.5	81.0	3.5	-	-	0.7
Wartime Acres	9,497	566	1,086	-	13,345	150	24,644	447	-	20	5,271
Per cent	26.8	1.6	3.1	-	37.7	0.4	69.6	1.3	-	0.1	14.9
Forgan Acres	16,752	1,343	2,023	20	22,263	669	43,070	502	140	160	3,563
Per cent	30.3	2.4	3.7	0.0	40.2	1.2	77.8	0.9	0.3	0.3	6.4
D'Arcy Acres	13,225	1,539	1,344	60	14,795	925	31,888	330	-	145	5,178
Per cent	33.4	3.9	3.4	0.2	37.4	2.3	80.6	0.8	-	0.4	13.1
Villages											
Bounty Acres	11,635	1,157	1,638	120	12,501	442	27,493	310	-	65	4,565
Per cent	33.1	3.3	4.6	0.3	35.5	1.3	78.1	0.9	-	0.2	13.0
Hughton Acres	16,095	790	1,701	-	21,077	1,435	41,098	552	-	-	8,320
Per cent	28.6	1.4	3.0	-	37.5	2.6	73.1	1.0	-	-	14.8
Glidden Acres	17,626	1,279	625	-	24,791	203	44,524	863	-	215	4,089
Per cent	30.6	2.2	1.1	-	43.0	0.3	77.2	1.5	-	0.4	7.1

(continued)

TABLE 18. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (continued)

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Durum	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Netherhill Acres	14,799	1,301	2,741	40	20,130	314	39,325	2,616	631	-	243	4,472	47,287
Per cent	31.3	2.7	5.8	0.1	42.6	0.7	83.2	5.5	1.3	-	0.5	9.5	100.0
Madison Acres	15,800	683	2,330	170	26,122	168	45,273	8,517	2,063	-	25	1,324	57,202
Per cent	27.6	1.2	4.1	0.3	45.7	0.3	79.2	14.9	3.6	-	0.0	2.3	100.0
Fiske Acres	20,120	2,936	1,555	20	20,494	1,906	47,031	2,257	130	-	625	13,148	63,191
Per cent	31.8	4.7	2.5	0.0	32.4	3.0	74.4	3.6	0.2	-	1.0	20.8	100.0
Macrorie Acres	9,996	529	540	-	12,565	223	23,853	2,703	85	-	35	6,548	33,224
Per cent	30.1	1.6	1.6	-	37.8	0.7	71.8	8.1	0.3	-	0.1	19.7	100.0
Plato Acres	14,057	570	60	-	19,533	415	34,635	6,649	900	-	25	5,057	47,266
Per cent	29.8	1.2	0.1	-	41.3	0.9	73.3	14.1	1.9	-	0.0	10.7	100.0
White Bear Acres	10,578	1,372	190	-	26,651	920	39,711	21,642	2,221	-	195	7,306	71,075
Per cent	14.9	1.9	0.3	-	37.5	1.3	55.9	30.4	3.1	-	0.3	10.3	100.0
Stewart Valley Acres	19,037	2,916	651	95	27,415	1,404	51,518	10,495	1,350	-	194	17,964	81,521
Per cent	23.4	3.6	0.8	0.1	33.6	1.7	63.2	12.9	1.7	-	0.2	22.0	100.0
Lacadena Acres	9,923	1,474	160	-	22,743	849	35,149	13,829	850	-	65	10,417	60,310
Per cent	16.5	2.4	0.3	-	37.7	1.4	58.3	22.9	1.4	-	0.1	17.3	100.0
Sovereign Acres	14,649	810	2,093	-	16,979	403	34,934	1,948	3,907	-	-	828	41,617
Per cent	35.2	1.9	5.0	-	40.8	1.0	83.9	4.7	9.4	-	-	2.0	100.0
Wiseton Acres	21,416	2,361	1,750	300	29,227	1,622	56,676	7,699	911	-	100	6,014	71,400
Per cent	30.0	3.3	2.5	0.4	40.9	2.3	79.4	10.8	1.3	-	0.1	8.4	100.0
Brock Acres	22,113	1,824	2,078	30	27,124	550	53,719	3,550	441	-	395	8,680	66,785
Per cent	33.1	2.7	3.1	0.1	40.6	0.8	80.4	5.3	0.7	-	0.6	13.0	100.0
Towns													
Milden Acres	22,624	2,142	3,232	223	26,821	324	55,366	7,100	1,900	-	-	5,169	69,535
Per cent	32.5	3.1	4.6	0.3	38.6	0.5	79.6	10.2	2.7	-	-	7.5	100.0
Dinsmore Acres	40,475	2,451	2,656	-	45,713	837	92,132	6,049	1,296	-	335	19,362	119,174
Per cent	34.0	2.0	2.2	-	38.4	0.7	77.3	5.1	1.1	-	0.3	16.2	100.0
Elrose Acres	14,945	685	1,765	-	23,362	210	40,967	10,193	1,135	-	20	5,767	58,082
Per cent	25.7	1.2	3.0	-	40.2	0.4	70.5	17.6	2.0	-	0.0	9.9	100.0

(continued)

TABLE 18. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1962-63 (concluded)

Delivery Point	Wheat	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified							Uncult. Land	Total
							Acres (Subtotal)	Durum	Flax	Rapeseed	Other Crops				
Kyle Acres Per cent	8,226 12.7	1,529 2.3	310 0.5	- -	24,555 37.9	1,105 1.7	35,725 55.1	23,629 36.5	1,340 2.1	- -	25 0.0	4,102 6.3	64,821 100.0		
Greater Towns															
Eston Acres Per cent	30,776 33.7	655 0.7	895 1.0	20 0.0	37,295 40.9	134 0.1	69,775 76.4	15,904 17.4	3,617 4.0	- -	15 0.0	1,967 2.2	91,278 100.0		
Rosetown Acres Per cent	33,495 29.7	2,213 2.0	2,182 1.9	- -	47,146 41.8	1,649 1.5	86,685 76.9	14,614 13.0	2,736 2.4	- -	12 0.0	8,748 7.7	112,795 100.0		
Kindersley Acres Per cent	34,783 33.4	2,313 2.2	2,705 2.6	10 0.0	45,333 43.5	729 0.7	85,873 82.4	10,954 10.5	3,174 3.0	- -	190 0.2	4,013 3.9	104,204 100.0		
Study Area Total	696,172 28.8	53,471 2.2	52,641 2.2	1,619 0.1	968,441 40.0	25,147 1.0	1,797,491 74.3	325,338 13.5	52,918 2.2	190 0.0	5,164 0.2	236,893 9.8	2,417,994 100.0		
Saskatchewan Total	15,454,942 27.5	3,260,029 5.8	1,806,685 3.2	359,911 0.6	17,922,504 31.9	1,755,699 3.1	40,559,770 72.1	2,706,327 4.8	346,557 0.6	151,889 0.3	257,875 0.5	12,195,975 21.7	56,218,393 100.0		

Source: Canadian Wheat Board, Winnipeg.

TABLE 19. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Flax	Rapeseed	Other Crops	Uncult. Land	Total
<i>Too Small to Classify</i>													
Pym													
Acres	Closed												
Per cent													
Surbiton													
Acres	Closed												
Per cent													
Glen Payne													
Acres	Closed												
Per cent													
Saltburn													
Acres	Closed												
Per cent													
Lille													
Acres	Closed												
Per cent													
Chipperfield													
Acres	Closed												
Per cent													
Verendrye													
Acres	Closed												
Per cent													
Gaines													
Acres	1,450	2,236	297	758	73	4,279	45	9,138	1,558	150	70	800	11,716
Per cent	12.4	19.1	2.5	6.5	0.6	36.5	0.4	78.0	13.3	1.3	0.6	6.8	100.0
Mondou													
Acres	3,547	2,835	10	770	80	4,804	40	12,086	225	-	-	1,180	13,491
Per cent	26.3	21.0	0.1	5.7	0.6	35.6	0.3	89.6	1.7	-	-	8.7	100.0
Inglenook													
Acres	2,924	872	185	740	60	5,355	98	10,234	230	-	120	706	11,290
Per cent	25.9	7.7	1.6	6.6	0.5	47.4	0.9	90.6	2.0	-	1.1	6.3	100.0
Penkill													
Acres	2,653	425	375	453	-	4,975	-	8,881	475	-	-	178	9,534
Per cent	27.8	4.4	3.9	4.8	-	52.2	-	93.1	5.0	-	-	1.9	100.0
Sandgren													
Acres	4,589	1,687	75	1,155	-	6,944	92	14,542	330	-	-	216	15,088
Per cent	30.4	11.2	0.5	7.7	-	46.0	0.6	96.4	2.2	-	-	1.4	100.0
Witley													
Acres	1,210	2,075	45	490	-	4,570	-	8,390	855	-	-	29	9,274
Per cent	13.0	22.4	0.5	5.3	-	49.3	-	90.5	9.2	-	-	0.3	100.0
Fortune													
Acres	3,153	1,949	637	1,040	-	7,510	-	14,289	1,059	65	110	210	15,733
Per cent	20.0	12.4	4.1	6.6	-	47.7	-	90.8	6.7	0.4	0.8	1.3	100.0
Juniper													
Acres	7,861	1,031	556	652	-	8,213	113	18,426	130	-	825	5,618	24,999
Per cent	31.4	4.1	2.2	2.6	-	32.9	0.5	73.7	0.5	-	3.3	22.5	100.0

(continued)

TABLE 19. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Specified					Other Crops	Uncult. Land	Total
							Forage Crops	Acres (Subtotal)	Flax	Rapeseed	Crops			
Tichfield Acres	6,837 29.5	1,055 4.5	668 2.9	747 3.2	-	8,582 37.1	592 2.6	18,481 79.8	-	-	105 0.5	4,573 19.7	23,159 100.0	
Anerley Acres	10,276 26.5	5,887 15.2	394 1.0	1,356 3.5	-	15,802 40.7	157 0.4	33,872 87.3	348 0.9	160 0.4	-	4,404 11.4	38,784 100.0	
Matador Acres	2,705 10.2	6,408 24.0	1,741 6.5	955 3.6	140 0.5	9,888 37.1	1,471 5.5	23,308 87.4	1,095 4.1	-	-	2,273 8.5	26,676 100.0	
Ridpath Acres	1,573 24.9	708 11.2	50 0.8	345 5.4	-	2,357 37.3	220 3.5	5,253 83.1	330 5.2	-	10 0.2	726 11.5	6,319 100.0	
Thrasher Acres	5,453 23.3	2,386 10.2	88 0.4	1,550 6.7	-	10,619 45.4	50 0.2	20,146 86.2	1,960 8.4	370 1.6	200 0.8	700 3.0	23,376 100.0	
Gunworth Acres	4,123 25.0	2,250 13.6	219 1.3	913 5.5	120 0.7	6,212 37.6	385 2.4	14,222 86.1	775 4.7	-	140 0.9	1,377 8.3	16,514 100.0	
Totnes Acres	5,478 24.1	1,695 7.5	397 1.7	1,970 8.7	-	10,367 45.5	94 0.4	20,001 87.9	1,805 7.9	-	-	961 4.2	22,767 100.0	
Beadle Acres	15,481 27.0	4,163 7.3	1,130 2.0	4,015 7.0	490 0.9	24,520 42.8	274 0.5	50,073 87.5	3,500 6.1	230 0.4	40 0.1	3,403 5.9	57,246 100.0	
Hamlets														
Leach Siding Acres	6,912 21.7	6,788 21.3	207 0.6	1,708 5.4	-	13,748 43.1	650 2.0	30,013 94.1	1,097 3.4	65 0.2	-	724 2.3	31,899 100.0	
McMorran Acres	6,963 26.9	1,787 6.9	364 1.4	2,621 10.2	80 0.3	10,670 41.3	653 2.5	23,138 89.5	1,025 4.0	-	-	1,678 6.5	25,841 100.0	
Bratton Acres	7,169 32.7	2,063 9.4	409 1.9	792 3.6	-	8,755 40.0	220 1.0	19,408 88.6	275 1.3	95 0.4	-	2,126 9.7	21,904 100.0	
Glamis Acres	4,197 17.4	2,718 11.3	406 1.7	1,870 7.7	-	10,233 42.3	44 0.2	19,468 80.6	4,406 18.2	50 0.2	40 0.2	203 0.8	24,167 100.0	
Tuberose Acres	3,527 12.6	9,384 33.6	40 0.2	160 0.6	-	11,266 40.4	225 0.8	24,602 88.2	530 1.9	-	80 0.3	2,689 9.6	27,901 100.0	
Bickleigh Acres	4,985 26.5	1,871 10.0	510 2.7	1,130 6.0	-	7,783 41.4	95 0.5	16,374 87.1	1,025 5.5	-	120 0.6	1,284 6.8	18,803 100.0	
Snipe Lake Acres	11,764 18.7	9,343 14.9	1,325 2.1	4,985 7.9	-	26,009 41.5	1,310 2.1	54,736 87.2	4,631 7.4	-	-	3,379 5.4	62,746 100.0	

(continued)

TABLE 19. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Greenan Acres	3,930	1,840	155	740	-	6,676	140	13,481	360	-	140	2,796	16,777
Per cent	23.4	11.0	0.9	4.4	-	39.8	0.9	80.4	2.1	-	0.8	16.7	100.0
Isham Acres	6,647	7,506	434	1,749	-	18,567	232	35,135	6,801	-	-	500	42,436
Per cent	15.7	17.7	1.0	4.1	-	43.8	0.5	82.8	16.0	-	-	1.2	100.0
McGee Acres	3,826	985	235	340	-	5,278	68	10,732	702	-	-	1,935	13,369
Per cent	28.6	7.4	1.8	2.5	-	39.5	0.5	80.3	5.2	-	-	14.5	100.0
Sanctuary Acres	8,670	14,133	829	1,060	-	23,321	734	48,747	1,377	-	35	5,183	55,342
Per cent	15.7	25.5	1.5	1.9	-	42.1	1.3	88.0	2.5	-	0.1	9.4	100.0
Tyner Acres	7,687	11,772	605	1,510	-	19,817	73	41,464	3,386	-	117	1,481	46,448
Per cent	16.5	25.3	1.3	3.3	-	42.7	0.2	89.3	7.3	-	0.2	3.2	100.0
Richlea Acres	9,353	7,457	670	5,577	-	28,185	60	51,302	5,934	885	-	332	58,453
Per cent	16.0	12.8	1.1	9.5	-	48.2	0.1	87.7	10.2	1.5	-	0.6	100.0
Wartime Acres	7,740	8,158	878	3,616	570	17,051	725	38,738	2,925	200	100	5,056	47,019
Per cent	16.5	17.3	1.9	7.7	1.2	36.3	1.5	82.4	6.2	0.4	0.2	10.8	100.0
Forgan Acres	13,743	6,967	1,228	3,201	1,000	20,608	956	47,703	1,951	-	811	4,220	54,685
Per cent	25.1	12.8	2.3	5.8	1.8	37.7	1.7	87.2	3.6	-	1.5	7.7	100.0
O'Arcy Acres	12,179	1,570	1,661	3,802	420	19,063	985	39,680	865	40	40	4,225	44,850
Per cent	27.2	3.5	3.7	8.5	0.9	42.5	2.2	88.5	1.9	0.1	0.1	9.4	100.0
Villages													
Bounty Acres	8,450	2,610	530	2,497	400	12,344	315	27,146	1,720	-	10	3,322	32,198
Per cent	26.3	8.1	1.6	7.8	1.2	38.3	0.1	84.3	5.4	-	0.0	10.3	100.0
Hughton Acres	13,282	7,234	715	5,990	190	24,243	1,388	53,042	3,726	151	190	7,952	65,061
Per cent	20.4	11.1	1.1	9.2	0.3	37.3	2.1	81.5	5.7	0.2	0.4	12.2	100.0
Glidden Acres	17,244	5,375	1,331	4,280	400	26,978	385	55,993	1,915	-	380	6,027	64,315
Per cent	26.8	8.4	2.1	6.7	0.6	41.9	0.6	87.1	3.0	-	0.6	9.3	100.0
Netherhill Acres	13,630	3,899	1,252	4,338	431	23,396	311	47,257	1,955	30	25	3,532	52,799
Per cent	25.8	7.4	2.4	8.2	0.8	44.3	0.6	89.5	3.7	0.1	0.0	6.7	100.0
Madison Acres	12,115	6,365	322	4,986	70	26,199	20	50,077	4,284	-	-	878	55,239
Per cent	21.9	11.5	0.6	9.0	0.1	47.4	0.1	90.6	7.8	-	-	1.6	100.0

(continued)

TABLE 19. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)		Rapeseed	Other Crops	Uncult. Land	Total
Fiske Acres	21,153	3,185	2,144	3,626	1,585	27,345	1,306	60,344	1,183	-	220	13,969	75,716
Per cent	27.9	4.2	2.8	4.8	2.2	36.1	1.7	79.7	1.6	-	0.3	18.4	100.0
Macrorie Acres	10,494	2,454	629	855	-	12,847	468	27,747	155	40	55	7,404	35,401
Per cent	29.7	6.9	1.8	2.4	-	36.3	1.3	78.4	0.4	0.1	0.2	20.9	100.0
Plato Acres	12,441	6,591	627	3,529	-	20,004	1,632	44,824	2,390	80	264	4,752	52,310
Per cent	23.8	12.6	1.2	6.7	-	38.3	3.1	85.7	4.6	0.1	0.5	9.1	100.0
White Bear Acres	9,253	22,325	433	1,086	230	28,816	1,084	63,227	4,484	-	-	7,910	75,621
Per cent	12.2	29.5	0.6	1.5	0.3	38.1	1.4	83.6	5.9	-	-	10.5	100.0
Stewart Valley Acres	15,309	8,619	1,651	2,300	644	26,480	1,928	56,931	1,128	-	127	14,734	72,920
Per cent	21.0	11.8	2.3	3.2	0.9	36.3	2.6	78.1	1.5	-	0.2	20.2	100.0
Lacadena Acres	10,470	14,222	746	430	-	22,396	1,044	49,308	2,330	-	100	8,106	59,844
Per cent	17.5	23.8	1.3	0.7	-	37.4	1.7	82.4	3.9	-	0.2	13.5	100.0
Sovereign Acres	6,801	5,520	831	4,684	25	21,002	335	39,198	6,282	630	1,790	466	48,366
Per cent	14.1	11.4	1.7	9.7	0.0	43.4	0.7	81.0	13.0	1.3	3.7	0.1	100.0
Wiseton Acres	12,146	14,090	1,807	3,902	1,995	25,912	1,677	61,529	2,300	40	120	4,667	68,656
Per cent	17.7	20.5	2.6	5.7	2.9	37.8	2.4	89.6	3.4	0.0	0.2	6.8	100.0
Brock Acres	17,119	4,159	2,486	5,491	1,053	29,344	2,501	62,153	1,236	40	239	6,863	70,531
Per cent	24.3	5.9	3.5	7.8	1.5	41.6	3.5	88.1	1.8	0.1	0.3	9.7	100.0
TOWNS													
Milden Acres	16,757	11,139	1,590	4,722	415	29,316	460	64,399	5,120	901	1,655	5,259	77,334
Per cent	21.7	14.4	2.1	6.1	0.5	37.9	0.6	83.3	6.6	1.2	2.1	6.8	100.0
Dinsmore Acres	34,950	12,003	1,729	5,479	-	45,729	827	100,717	2,426	552	730	16,926	121,351
Per cent	28.8	9.9	1.4	4.5	-	37.7	0.7	83.0	2.0	0.5	0.6	13.9	100.0
Elrose Acres	14,038	11,126	560	5,601	383	25,206	686	57,600	2,995	230	60	7,826	68,711
Per cent	20.4	16.2	0.8	8.2	0.5	36.7	0.1	83.8	4.4	0.3	0.1	11.4	100.0
Kyle Acres	7,972	22,269	781	1,267	70	28,274	670	61,303	1,330	-	-	3,159	65,792
Per cent	12.1	33.9	1.2	1.9	0.1	43.0	1.0	93.2	2.0	-	-	4.8	100.0

(continued)

TABLE 19. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1969-70 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Specified Acres (Subtotal)	Flax	Rapeseed	Other Crops	Uncult. Land	Total
<i>Greater Towns</i>													
Eston	21,175	16,551	1,085	5,773	940	44,186	58	89,768	6,468	-	40	2,020	98,296
Acres	21.5	16.8	1.1	5.9	0.1	45.0	0.0	91.3	6.6	-	0.0	2.1	100.0
Per cent													
Rosetown	36,783	17,013	3,887	11,724	237	60,081	2,045	131,770	11,836	1,115	2,115	9,854	156,690
Acres	23.5	10.9	2.5	7.5	0.1	38.3	1.3	84.1	7.6	0.7	1.3	6.3	100.0
Per cent													
Kindersley	40,494	13,510	1,253	9,280	945	60,313	994	126,789	5,401	-	220	3,671	136,081
Acres	29.8	9.9	0.9	6.8	0.7	44.3	0.8	93.2	4.0	-	0.1	2.7	100.0
Per cent													
Study Area Total	550,681	342,263	43,212	144,610	13,046	1,002,438	30,935	2,127,185	122,629	6,119	11,443	204,462	2,471,838
Acres	22.3	13.8	1.8	5.8	0.5	40.6	1.3	86.1	4.9	0.2	0.5	8.3	100.0
Per cent													
Saskatchewan Total	15,872,495	2,606,821	2,398,645	2,984,539	518,900	19,211,660	2,108,161	45,701,221	678,036	821,577	270,865	9,682,344	57,154,043
Acres	27.8	4.6	4.2	5.2	0.9	33.6	3.7	80.0	1.2	1.4	0.5	16.9	100.0
Per cent													

Source: Canadian Wheat Board, Winnipeg.

TABLE 20. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1970-71

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
<i>Too Small to Classify</i>													
Pym													
Acres	Closed												
Per cent													
Surbiton													
Acres	Closed												
Per cent													
Glen Payne													
Acres	Closed												
Per cent													
Saltburn													
Acres	Closed												
Per cent													
Lille													
Acres	Closed												
Per cent													
Chipperfield													
Acres	Closed												
Per cent													
Verendrye													
Acres	Closed												
Per cent													
Gaines													
Acres	Closed												
Per cent													
Mondou													
Acres	845	1,746	110	431	140	7,397	65	10,734	931	-	-	1,179	12,844
Per cent	6.6	13.6	0.8	3.4	1.1	57.6	0.5	83.6	7.2	-	-	9.2	100.0
Inglenook													
Acres	885	493	272	560	160	6,482	93	8,945	300	255	180	348	10,028
Per cent	8.8	4.9	2.7	5.6	1.6	64.7	0.9	89.2	3.0	2.5	1.8	3.5	100.0
Penkill													
Acres	Closed												
Per cent													
Sandgren													
Acres	1,335	1,044	141	557	-	5,203	57	8,337	585	40	-	249	9,211
Per cent	14.5	11.3	1.5	6.1	-	56.5	0.6	90.5	6.4	0.4	-	2.7	100.0
Witley													
Acres	120	407	77	654	-	3,106	-	4,364	704	-	164	32	5,264
Per cent	2.3	7.7	1.5	12.4	-	59.0	-	82.9	13.4	-	3.1	0.6	100.0
Fortune													
Acres	718	1,369	130	834	-	7,681	-	10,732	1,145	420	42	194	12,533
Per cent	5.7	10.9	1.0	6.7	-	61.3	-	85.6	9.1	3.4	0.3	1.6	100.0

(continued)

TABLE 20. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Juniper Acres Per cent	3,956 14.5	1,397 5.1	553 2.0	1,187 4.3	- -	11,885 43.5	288 1.1	19,266 70.5	373 1.4	171 0.6	- -	7,522 27.5	27,332 100.0
Tichfield Acres Per cent	3,667 15.6	1,643 7.0	720 3.1	1,095 4.6	10 0.0	10,914 46.3	852 3.6	18,901 80.2	45 0.2	112 0.5	- -	4,504 19.1	23,562 100.0
Anerley Acres Per cent	1,685 6.7	2,636 10.5	592 2.4	1,646 6.6	- -	12,227 48.8	362 1.4	19,148 76.4	1,007 4.0	1,065 4.2	370 1.5	3,485 13.9	25,075 100.0
Matador Acres Per cent	1,057 4.0	5,064 18.9	631 2.4	919 3.4	222 0.8	12,824 47.9	1,569 5.9	22,286 83.3	2,224 8.3	25 0.1	40 0.1	2,187 8.2	26,762 100.0
Ridpath Acres Per cent	270 5.5	668 13.5	60 1.2	198 4.0	- -	2,198 44.6	233 4.7	3,627 73.5	551 11.2	50 1.0	- -	703 14.3	4,931 100.0
Thrasher Acres Per cent	1,562 7.2	1,877 8.6	105 0.5	1,068 4.9	- -	12,363 56.8	92 0.4	17,067 78.4	3,031 13.9	560 2.6	220 1.0	891 4.1	21,769 100.0
Gunworth Acres Per cent	679 4.3	1,096 7.0	275 1.8	1,034 6.6	195 1.2	8,659 55.3	418 2.7	12,356 78.9	1,409 9.0	239 1.5	70 0.5	1,579 10.1	15,653 100.0
Totnes Acres Per cent	1,933 11.0	792 4.5	185 1.1	1,907 10.8	60 0.3	10,223 58.1	99 0.6	15,199 86.4	1,714 9.7	- -	235 1.3	451 2.6	17,599 100.0
Beadle Acres Per cent	3,410 6.0	4,835 8.4	1,259 2.2	5,730 10.0	360 0.6	30,060 52.5	890 1.6	46,544 81.3	5,208 9.1	1,184 2.1	195 0.3	4,104 7.2	57,235 100.0
<i>Hamlets</i>													
Leach Siding Acres Per cent	1,733 6.5	3,012 11.3	370 1.4	2,122 8.0	- -	13,514 50.7	600 2.2	21,351 80.1	3,359 12.6	- -	220 0.8	1,734 6.5	26,664 100.0
McMorran Acres Per cent	1,145 4.0	2,007 7.0	520 1.8	2,673 9.4	80 0.3	15,313 53.6	627 2.2	22,365 78.3	3,267 11.4	- -	302 1.1	2,638 9.2	28,572 100.0
Bratton Acres Per cent	3,465 13.9	2,257 9.1	685 2.8	1,459 5.9	- -	12,465 50.2	678 2.7	21,009 84.6	602 2.4	625 2.5	50 0.2	2,558 10.3	24,844 100.0
Glamis Acres Per cent	642 2.7	1,822 7.6	115 0.5	1,452 6.1	- -	14,201 59.2	33 0.1	18,265 76.2	5,188 21.6	190 0.8	135 0.6	194 0.8	23,972 100.0
Tuberose Acres Per cent	1,663 5.7	7,704 26.6	111 0.4	216 0.7	- -	14,605 50.4	265 0.9	24,564 84.7	1,714 5.9	- -	- -	2,719 9.4	28,997 100.0

(continued)

TABLE 20. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Bickleigh													
Acres	1,208	985	672	1,205	-	9,718	204	13,992	1,781	-	5	1,473	17,251
Per cent	7.0	5.7	3.9	7.0	-	56.3	1.2	81.1	10.3	-	0.0	8.6	100.0
Snipe Lake													
Acres	2,769	6,831	1,260	5,777	405	32,254	2,024	51,320	8,479	427	439	3,914	64,579
Per cent	4.3	10.6	2.0	8.9	0.6	50.0	3.1	79.5	13.1	0.6	0.7	6.1	100.0
Greenan													
Acres	Closed												
Per cent													
Isham													
Acres	2,131	4,911	579	3,190	-	22,020	272	33,103	6,715	95	85	635	40,633
Per cent	5.2	12.1	1.4	7.9	-	54.2	0.7	81.5	16.5	0.2	0.2	1.6	100.0
McGee													
Acres	1,628	1,378	175	459	85	5,941	680	10,346	1,180	-	-	2,482	14,008
Per cent	11.6	9.8	1.3	3.3	0.6	42.4	4.9	73.9	8.4	-	-	17.7	100.0
Sanctuary													
Acres	2,689 ^a	10,313	1,511	3,497	163	26,011	601	44,785	3,705	-	105	7,233	55,828
Per cent	4.8	18.5	2.7	6.2	0.3	46.6	1.1	80.2	6.6	-	0.2	13.0	100.0
Tyner													
Acres	3,209	6,402	353	745	280	24,409	250	35,648	5,285	-	160	1,628	42,721
Per cent	7.5	15.0	0.8	1.7	0.7	57.1	0.6	83.4	12.4	-	0.4	3.8	100.0
Richlea													
Acres	2,544	5,805	642	6,298	-	33,613	233	49,135	11,614	970	458	451	62,623
Per cent	4.1	9.3	1.0	10.0	-	53.7	0.4	78.5	18.5	1.6	0.7	0.7	100.0
Wartime													
Acres	3,072	4,121	1,112	3,309	753	27,346	1,018	40,731	3,821	1,353	565	6,160	52,630
Per cent	5.8	7.8	2.1	6.3	1.5	52.0	1.9	77.4	7.2	2.6	1.1	11.7	100.0
Forgan													
Acres	5,934	6,167	755	3,672	760	26,129	1,105	44,522	3,955	499	583	5,134	54,693
Per cent	10.8	11.3	1.4	6.7	1.4	47.8	2.0	81.4	7.2	0.9	1.1	9.4	100.0
D'Arcy													
Acres	4,722	1,640	1,538	3,049	567	22,241	1,775	35,532	2,222	400	335	5,321	43,810
Per cent	10.8	3.7	3.5	6.9	1.3	50.8	4.1	81.1	5.1	0.9	0.8	12.1	100.0
Villages													
Bounty													
Acres	3,100	2,440	380	2,030	505	18,565	483	27,503	2,297	157	330	3,654	33,941
Per cent	9.1	7.2	1.1	6.0	1.5	54.7	1.4	81.0	6.8	0.5	1.0	10.7	100.0
Hughton													
Acres	2,262	6,520	1,329	5,710	-	30,612	1,190	47,623	6,273	840	880	8,081	63,697
Per cent	3.6	10.2	2.1	9.0	-	48.0	1.9	74.8	9.8	1.3	1.4	12.7	100.0
Glidden													
Acres	8,485	6,482	1,670	4,026	193	28,326	695	49,877	3,985	237	308	4,381	58,788
Per cent	14.4	11.0	2.9	6.8	0.3	48.2	1.2	84.8	6.8	0.4	0.5	7.5	100.0

See footnotes at end of table

(continued)

TABLE 20. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1970-71 (continued)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Netherhill Acres	3,679	4,292	1,323	5,380	660	28,372	886	44,592	4,728	305	100	3,630	53,355
Per cent	6.9	8.0	2.5	10.1	1.2	53.2	1.7	83.6	8.9	0.5	0.2	6.8	100.0
Madison Acres	2,959 ^b	4,779	428	5,836	-	30,575	24	44,601	8,320	491	540	964	54,916
Per cent	5.4	8.7	0.8	10.6	-	55.7	0.0	81.2	15.2	0.9	0.1	1.7	100.0
Fiske Acres	5,033	4,632	2,370	4,301	1,506	35,541	1,926	55,309	4,206	1,125	555	15,598	76,793
Per cent	6.6	6.0	3.1	5.6	2.0	46.3	2.5	72.1	5.5	1.4	0.7	20.3	100.0
Macrorie Acres	4,908	1,996	669	1,008	-	12,490	810	21,881	266	-	280	6,393	28,820
Per cent	17.0	6.9	2.3	3.5	-	43.4	2.8	75.9	0.9	-	0.1	22.2	100.0
Plato Acres	4,154	6,565	722	5,104	-	31,486	1,618	49,649	7,226	260	179	8,601	65,915
Per cent	6.3	10.0	1.1	7.7	-	47.8	2.4	75.3	11.0	0.4	0.3	13.0	100.0
White Bear Acres	4,520	13,277	642	987	691	36,910	1,485	58,512	7,205	205	299	8,482	74,703
Per cent	6.0	17.8	0.9	1.3	0.9	49.4	2.0	78.3	9.6	0.3	0.4	11.4	100.0
Stewart Valley Acres	7,772	9,296	1,923	2,653	1,141	29,381	2,127	54,293	2,579	-	70	14,946	71,888
Per cent	10.8	12.9	2.7	3.7	1.6	40.9	2.9	75.5	3.6	-	0.1	20.8	100.0
Lacadena Acres	4,940	11,866	997	1,145	100	26,423	1,215	46,686	4,361	80	2	9,175	60,304
Per cent	8.2	19.7	1.6	1.9	0.2	43.8	2.0	77.4	7.3	0.1	0.0	15.2	100.0
Sovereign Acres	1,215	5,301	409	3,875	-	23,678	623	35,101	9,674	2,619	838	1,074	49,306
Per cent	2.5	10.7	0.8	7.9	-	48.0	1.3	71.2	19.6	5.3	1.7	2.2	100.0
Wiseton Acres	5,844	11,562	1,001	3,331	1,605	37,138	2,157	62,638	5,673	516	200	5,922	74,949
Per cent	7.8	15.4	1.3	4.4	2.2	49.6	2.9	83.6	7.6	0.7	0.2	7.9	100.0
Brock Acres	3,737	5,292	1,966	5,405	1,483	38,093	5,056	61,032	4,092	746	382	7,880	74,132
Per cent	5.0	7.1	2.7	7.3	2.0	51.4	6.8	82.3	5.5	1.0	0.5	10.7	100.0
<i>Towns</i>													
Milden Acres	4,784	8,539	1,504	6,095	180	39,765	1,115	61,982	9,894	2,743	2,273	6,979	83,871
Per cent	5.7	10.2	1.8	7.3	0.2	47.4	1.3	73.9	11.8	3.3	2.7	8.3	100.0
Dinsmore Acres	13,488	15,085	1,958	7,718	445	64,380	2,904	105,978	6,880	2,861	1,711	20,256	137,686
Per cent	9.8	11.0	1.4	5.6	0.3	46.8	2.1	77.0	5.0	2.1	1.2	14.7	100.0
Elrose Acres	5,331	6,590	916	5,919	815	34,483	915	54,969	5,199	794	787	8,856	70,605
Per cent	7.6	9.3	1.3	8.4	1.2	48.8	1.3	77.9	7.4	1.1	1.1	12.5	100.0

(continued)

See footnotes at end of table

TABLE 20. GRAIN FARM ACREAGE DEVOTED TO SPECIFIED USE BY DELIVERY POINT, 1970-71 (concluded)

Delivery Point	Wheat	Durum	Oats	Barley	Rye	Summer Fallow	Forage Crops	Subtotal	Flax	Rapeseed	Other Crops	Uncult. Land	Total
Kyle Acres	3,669	16,770	1,278	2,113	110	33,233	922	58,095	4,844	173	-	3,475	66,587
Per cent	5.5	25.2	1.9	3.2	0.2	49.9	1.4	87.3	7.3	0.2	-	5.2	100.0
Greater Towns													
Eston Acres	10,088	11,655	1,060	7,376	1,089	58,833	128	90,229	13,917	405	830	2,582	107,963
Per cent	9.4	10.8	0.1	6.8	1.0	54.5	0.1	83.6	12.9	0.3	0.8	2.4	100.0
Rosetown Acres	9,934	14,986	4,048	12,535	668	90,616	3,632	136,419	21,698	6,172	1,496	13,706	179,491
Per cent	5.5	8.3	2.3	7.0	0.4	50.5	2.0	76.0	12.1	3.4	0.8	7.7	100.0
Kindersley Acres	10,501	15,457	1,973	10,636	1,098	76,941	1,915	118,521	14,664	708	860	4,888	139,641
Per cent	7.5	11.1	1.4	7.6	0.8	55.1	1.4	84.9	10.5	0.5	0.6	3.5	100.0
Study Area Total	181,079	273,804	44,074	160,126	16,529	1,246,843	47,209	1,969,664	230,095	30,117	17,878	231,225	2,478,979
Acres	7.3	11.0	1.8	6.5	0.7	50.3	1.9	79.5	9.3	1.2	0.7	9.3	100.0
Per cent													
Saskatchewan Total	6,436,002 ^c	2,413,010	2,180,831	3,545,101	426,360	25,050,593	3,000,609	43,052,506	1,516,244	2,163,118	193,066	10,201,869	57,126,803
Acres	11.3	4.2	3.8	6.2	0.7	43.9	5.3	75.4	2.6	3.8	0.3	17.9	100.0
Per cent													

^aIncludes 112 acres of soft white spring wheat.
^bIncludes 120 acres of soft white spring wheat.
^cIncludes 4,862 acres of soft white spring wheat.

Source: Canadian Wheat Board, Winnipeg.

Crop Yields

Detailed crop yield data for each delivery point is shown in Table 21. Where available, the ten-year high, low, range and average yields of spring wheat, durum, oats, barley and flaxseed are given.

The yield pattern of spring wheat and durum were found to be very similar with average yields in the study area of 22.6 and 22.7 bushels per acre. Average yields of the other grains shown were oats 43.6, barley 33.7 and flax 12.5 bushels per acre. A large degree of variability in yields is also apparent from Table 21. The range between high and low yields for each grain in the study area is approximately twice the ten-year average yield value. For example, the range of 71 bushels per acre for barley is slightly more than double the ten-year average value of 33.7 bushels per acre. Of course, this relationship for a particular delivery point is not as pronounced as for the study area as a whole.

TABLE 21. TEN-YEAR AVERAGE YIELDS OF SPRING WHEAT, DURUM, OATS, BARLEY AND FLAXSEED BY DELIVERY POINT, 1961-70

Delivery Point	Spring Wheat				Durum				Oats				Barley				Flaxseed			
	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average
Too Small to Classify																				
Pym	7	7	0	7.0 ^a	9	9	0	9.0 ^a	20	20	0	20.0 ^a	15	15	0	15.0 ^a	6	6	0	6.0 ^a
Surbiton	22	10	12	16.0 ^b	20	10	10	15.0 ^b	30	15	15	22.5 ^b	20	10	10	15.0 ^b	10	7	3	8.5 ^b
Glen Payne	23	8	15	15.5 ^b	23	15	8	19.0 ^b	50	30	20	40.0 ^b	30	21	9	25.5 ^b	12	6	6	9.0 ^b
Saltburn	18	12	6	15.0 ^b	18	5	13	11.5 ^b	25	10	15	17.5 ^b	-	-	-	-	-	-	-	-
Lille	20	8	12	14.3 ^c	19	10	9	14.7 ^c	40	30	10	35.0 ^b	30	30	0	30.0 ^a	10	6	4	8.0 ^b
Chippierfield	35	8	27	17.9 ^g	40	10	30	20.1 ^g	60	10	50	30.8 ^f	55	15	40	29.3 ^g	15	3	12	9.0 ^d
Verendrye	35	18	17	25.0 ^h	35	12	23	23.4 ^h	65	30	35	45.7 ^g	60	35	25	47.1 ^g	17	9	8	13.4 ^g
Gaines	40	10	30	26.1 ⁱ	45	14	31	25.6	70	25	45	53.0 ^e	60	15	45	36.0	20	8	12	13.9 ⁱ
Mondou	40	7	23	20.0	30	6	24	18.5	80	10	70	40.5	60	10	50	36.0	20	3	17	10.6
Inglenook	45	18	28	26.2	40	12	28	25.0	65	20	45	44.0	53	15	38	35.8	20	4	16	11.3 ⁱ
Penkill	35	14	21	26.3 ⁱ	40	25	15	30.5 ^h	80	13	67	54.1 ^h	72	23	49	43.9 ⁱ	27	8	19	17.8 ⁱ
Sandgren	40	16	24	25.1	40	14	26	25.3	65	25	40	45.4	55	20	35	36.2	20	6	14	12.0 ⁱ
Witley	45	10	35	26.8	40	10	30	26.2	80	30	50	51.4 ^g	55	25	30	42.2 ⁱ	20	4	16	13.2
Fortune	37	8	29	22.6	40	9	31	23.6	80	15	65	53.0	55	15	40	37.0	22	6	16	13.3
Juniper	30	12	18	21.0	38	10	28	24.8	45	6	39	31.3	50	7	43	31.4	20	7	13	12.6 ^e
Tichfield	30	6	24	16.6 ⁱ	30	8	22	16.5 ^h	85	9	76	32.8 ⁱ	40	10	30	23.2 ⁱ	20	4	16	12.0 ^b
Anerley	30	12	18	24.3 ⁱ	32	12	20	22.7 ⁱ	60	20	40	41.7 ⁱ	50	20	30	33.9 ⁱ	20	8	12	13.1 ^h
Matador	35	18	17	24.7	37	15	22	24.1	70	15	55	43.5	70	15	55	37.0	20	5	15	13.5
Ridpath	35	10	25	21.9	40	12	28	24.2	70	10	60	41.9 ^h	50	10	40	32.7	18	5	13	11.6
Thrasher	33	10	23	21.5	35	8	27	21.5	50	13	37	43.3 ^g	50	10	40	30.5	20	5	15	12.6
Gunnworth	35	12	23	21.9	40	20	20	27.5 ^h	90	15	75	43.0	50	17	33	31.7	20	8	12	13.2 ⁱ
Totnes	35	10	25	24.0	40	11	29	24.4	90	10	80	50.0	50	20	30	39.0	20	7	13	12.5
Beadle	35	15	20	24.3	35	12	23	24.0	60	25	35	43.5	60	20	40	39.5	25	10	15	15.4
Hamlets																				
Leach Siding	35	10	25	24.8	40	15	25	25.8	99	20	79	63.6 ^h	60	20	40	40.5	25	9	16	14.9 ⁱ
McMorrin	40	15	25	25.5	40	12	28	26.2	80	20	60	49.0	65	10	55	34.3	20	5	15	13.3
Bratton	26	4	22	18.0	28	7	21	18.5	60	20	40	36.7 ⁱ	35	1	34	22.8	17	3	14	10.0 ⁱ
Glamis	40	12	28	25.4	45	12	33	27.0	70	8	62	48.3	60	10	50	35.5	25	7	18	15.1
Tuberose	30	8	22	19.7	35	8	27	21.0	55	15	40	37.2 ⁱ	50	15	45	34.4 ^h	15	4	11	9.7
Bickleigh	40	8	32	21.6	35	8	27	19.8	60	15	45	34.3 ^g	50	15	35	31.5	20	5	15	11.4 ⁱ
Snipe Lake	45	15	30	26.2	40	10	30	25.0	90	10	80	50.5	55	10	45	36.3	20	5	15	13.5
Greenan	30	5	25	21.1 ⁱ	35	6	29	19.5 ^h	50	18	32	33.8 ^f	60	20	40	35.0 ^h	18	4	14	9.4 ^g
Isham	30	12	18	23.7	36	10	26	22.5	80	10	70	38.0	60	10	50	32.7	20	3	17	12.0
McGee	35	16	19	25.5 ^h	35	15	20	24.0 ^h	60	25	35	42.5 ^h	50	21	29	35.1 ⁱ	20	8	12	12.9 ^h
Sanctuary	34	6	28	20.3	35	6	29	20.4	80	7	73	40.8 ⁱ	50	5	45	27.3	20	4	16	11.9
Tyner	40	13	27	25.7 ⁱ	40	12	28	24.7 ⁱ	70	30	40	47.5 ^h	50	25	25	36.4 ⁱ	20	7	13	13.0 ⁱ
Richlea	40	12	28	26.3	40	12	28	24.6	63	30	33	46.0 ⁱ	60	20	40	37.5	20	7	13	13.7
Wartime	26	8	18	19.0	25	8	17	19.3	60	20	40	41.9 ⁱ	45	8	37	29.8	25	2	23	12.4 ⁱ
Forgan	35	6	29	19.1	35	6	29	20.4	60	10	50	37.0	50	6	44	27.5	25	1	24	11.1 ⁱ
D'Arcy	40	12	28	23.9	32	11	21	20.8 ^h	80	20	60	46.2	50	20	30	31.0	15	5	10	11.9 ⁱ

(continued)

See footnotes at end of table

TABLE 21. TEN-YEAR AVERAGE YIELDS OF SPRING WHEAT, DURUM, OATS, BARLEY AND FLAXSEED BY DELIVERY POINT, 1961-70 (concluded)

Delivery Point	Spring Wheat				Durum				Oats				Barley				Flaxseed			
	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average	High	Low	Range	Ten-Year Average
- bushels per acre -																				
<i>Villages</i>																				
Bounty	30	6	24	19.9	30	8	22	18.6	45	10	35	31.0	40	3	37	27.2	25	6	19	11.9
Houghton	30	8	22	20.7	30	8	22	20.2	60	5	55	35.5	40	7	33	30.2	16	5	11	11.1
Glidden	35	10	25	22.0	35	10	25	21.9	80	25	55	47.0	50	16	34	33.1	22	8	14	13.1
Netherhill	40	15	25	25.7	35	15	20	23.8	90	20	70	50.5	50	20	30	37.2	20	8	12	12.8
Madison	40	18	22	26.1	40	14	26	26.7	80	35	45	59.3 ^g	56	30	26	40.4	20	5	15	13.6
Fiske	33	10	23	20.4	35	10	25	20.0	70	20	50	38.5	40	15	25	27.5	15	8	7	11.3
Macrorie	30	5	25	17.1	30	4	26	17.7	75	8	67	26.1	45	8	37	22.8	20	5	15	10.0 ^d
Plato	33	12	21	23.7 ⁱ	35	8	27	22.6 ⁱ	80	40	40	65.7 ^g	50	15	35	36.7 ⁱ	20	6	14	12.8 ⁱ
White Bear	38	8	30	23.0	35	10	25	22.9	80	10	70	43.0	60	5	55	36.0	22	4	18	12.8
Stewart Valley	30	10	20	20.8	35	12	23	22.8	60	20	40	38.0	50	15	35	31.5	20	3	17	11.6
Lacadena	35	5	30	19.5	35	5	30	18.9	80	10	70	37.2	50	8	42	27.2	18	2	16	9.2
Sovereign	35	12	23	25.0	35	10	25	24.4	80	20	60	52.5	55	15	40	37.5	20	5	15	15.2
Wiseton	32	7	25	21.5	35	9	26	23.0	80	8	72	40.4	50	10	40	31.6	25	3	22	12.1 ⁱ
Brock	31	8	23	22.9 ⁱ	35	8	27	22.9 ^h	75	10	65	51.7 ⁱ	60	15	45	37.8 ⁱ	20	7	13	13.6 ⁱ
<i>Towns</i>																				
Milden	35	8	27	22.8	35	8	27	22.3	60	10	50	40.5	55	10	45	31.5	20	5	15	13.1
Dinsmore	35	8	27	22.5	35	9	26	22.3	65	10	55	43.4	50	15	35	33.0	25	5	20	13.6 ^e
Elrose	33	8	25	22.6	30	10	20	21.6	80	20	60	49.7	60	10	50	34.0	18	4	14	10.9
Kyle	30	15	15	22.7	30	15	15	23.4	60	20	40	43.0	50	20	30	36.1	20	5	15	13.2
<i>Greater Towns</i>																				
Eston	38	12	26	23.0 ⁱ	35	12	23	22.2 ⁱ	75	25	50	48.3 ⁱ	50	20	30	34.4 ⁱ	18	8	10	12.2 ⁱ
Rosetown	36	10	26	24.6	40	11	29	25.8	85	25	60	49.5	55	12	43	35.2	25	8	17	13.0
Kindersley	38	15	23	25.6	38	15	23	25.1	80	21	59	49.0	60	15	45	37.5	25	7	18	13.7
Study Area Total	45	4	41	22.6 ^j	45	4	41	22.7 ^j	99	5	94	43.6 ^j	72	1	71	33.7 ^j	27	1	26	12.5 ^j

^a1 year average

^b2 year average

^c3 year average

^d4 year average

^e5 year average

^f6 year average

^g7 year average

^h8 year average

ⁱ9 year average

^jcalculated as an average of the above averages weighted by the number of years each represents.

Source: Canadian Wheat Board, Winnipeg.

Protein Content of Wheat

The percentage of protein content in hard red spring wheat has recently become more important in the grading and marketing of wheat. Regulations under the new Canada Grain Act incorporate protein content in the new grading system. While there are other quality factors to consider, protein content is closely watched by millers and bakers.

Table 22 shows the protein content for samples of wheat by delivery point over a nine-year period. Totals for the study area and the province are also shown. It can be seen from the data that protein content varies considerably from year to year and from region to region. The lowest percentage recorded was 10.1 per cent at Bratton in 1968. This was still above the provincial low of 9.5 per cent that year. The highest level reached 19.3 per cent at Eston in 1964 and this equalled the provincial high that year. The majority of the readings are in the 13 to 15 per cent range. In terms of annual averages the highest recorded occurred at Tichfield in 1963, 17.9 per cent and the lowest occurred at Matador in 1968, 11.4 per cent. However, these "averages" are each based on only one sample, which points up the need for caution when reading these data. The number of samples at each delivery point in any one year ranges from 1 to 15 with the majority being in the neighborhood of 3 to 5 samples.

Only two points in the study area, Tichfield and Anerley consistently showed protein content of 14.0 per cent or higher over the nine years. The average protein content levels in the study area were equal to or slightly greater than the Saskatchewan levels in every one of the years shown.

TABLE 22. PROTEIN CONTENT OF HARD RED SPRING WHEAT BY DELIVERY POINT, 1962 TO 1970 (concluded)

Delivery Point	1962		1963		1964		1965		1966		1967		1968		1969		1970	
	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range	Aver- age	Range
- per cent -																		
<i>Towns</i>																		
Milden	14.7	13.6-15.9	15.8	12.5-17.4	15.8	14.8-16.5	14.2	12.9-15.4	13.3	10.5-14.7	15.5	14.2-17.0	14.1	11.4-15.3	15.0	14.4-15.5	13.4	12.5-14.2
Dinsmore	15.4	14.4-16.5	15.5	14.6-16.2	17.3	17.0-17.3	15.6	14.6-16.1	13.4	12.9-13.9	14.4	11.8-17.0	14.3	14.2-14.5	14.8	13.5-15.6	14.6	13.6-15.8
Elrose	14.2	12.9-15.6	15.6	13.1-17.9	16.1	13.9-19.2	15.1	13.6-17.5	13.8	13.1-14.6	14.0	12.1-14.9	14.3	13.1-17.5	14.7	14.5-14.9	n.a.	n.a.
Kyle	14.9	n.a.	14.9	14.0-15.5	16.8	16.0-17.6	14.0	13.3-14.8	13.9	12.9-15.4	13.8	13.6-14.0	15.5	13.8-17.8	14.9	14.5-15.8	13.5	n.a.
<i>Greater Towns</i>																		
Eston	15.3	14.0-15.8	15.3	14.8-15.6	16.1	14.3-19.3	13.3	11.6-14.9	13.3	11.7-14.6	14.1	13.9-14.4	13.8	11.8-14.9	14.9	12.7-16.7	13.6	13.3-13.9
Rosetown	14.8	14.7-14.9	15.5	14.4-16.5	14.4	14.0-15.6	13.9	13.5-14.7	12.6	11.0-13.8	13.9	11.1-15.6	13.7	12.7-14.6	14.0	11.9-14.8	12.9	11.1-13.7
Kindersley	15.3	14.7-16.1	14.8	13.0-17.3	14.7	14.3-15.2	14.0	12.3-17.7	13.2	11.6-14.4	14.8	13.5-17.5	14.5	13.2-15.5	13.9	11.4-15.6	14.0	12.1-15.0
Total Study Area ^a	15.0	10.8-17.6	15.4	11.6-18.9	15.7	12.4-19.3	14.5	11.6-18.6	13.3	10.5-16.0	14.3	11.1-17.5	14.2	10.1-18.2	14.5	11.3-16.7	13.9	11.1-16.2
Saskatchewan Total	14.2	8.6-18.6	14.6	8.5-19.2	15.3	10.4-19.3	13.7	9.5-18.9	13.3	9.5-17.7	14.1	9.0-19.1	14.2	9.5-19.7	14.0	9.1-19.3	13.4	8.8-16.8

n.a. - Not available.

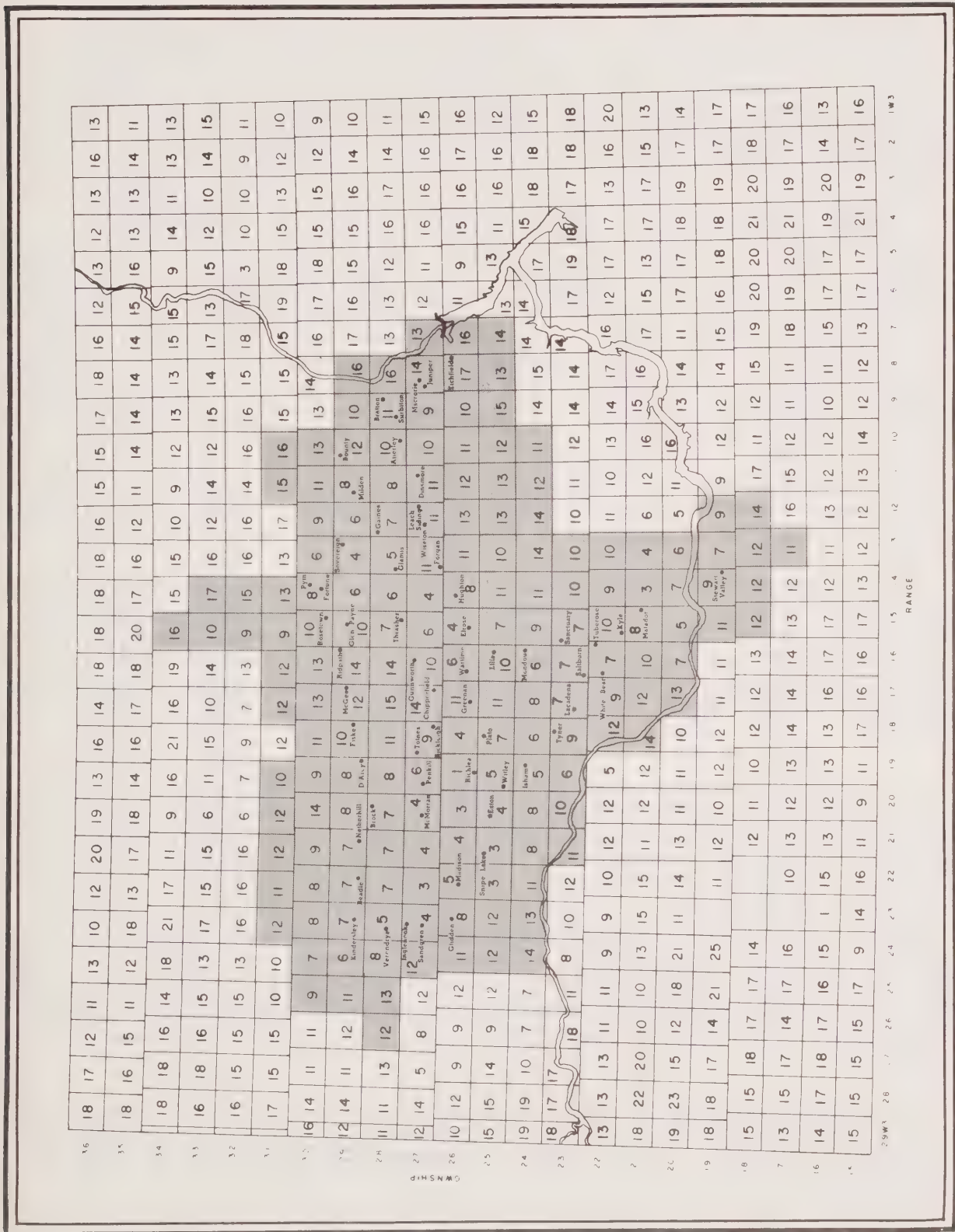
^aAverages weighted by number of samples.

Source: Grain Research Laboratory, Canadian Grain Commission, Winnipeg.

Prairie Farm Assistance Act Payments

Figure 3 shows the number of times during the past 31 years PFAA payments were made to grain farmers in each township because of crop failure. A value of 12, for example does not mean that all farmers in that township received payments in 12 years out of 31 but that some farmers did. Thus, the map gives an indication of crop failure frequency in the study area.

The least number of payments in the study area occurred at Richlea where farmers in one township received payments only once. Five townships in the vicinities of Snipe Lake, Madison and Matador received payments three times. Considerable variation exists, even between adjacent townships. The greatest number of years in which payments were made were 17 at Tichfield and north of Rosetown.



Prairie Farm Assistance Act Payments 1939 - 1969

Farm Size and Land Tenure

The distribution of grain farm sizes in the Eston-Elrose study area is shown in Table 23. Class sizes are arranged in intervals of 159 acres such that 160, or a multiple of it, falls at the midpoint of each class size. More detailed statistics of farm sizes, grouped by delivery point, are given in Table 24 for crop years 1962-63 and 1969-70.

The "number of farms" in this context is actually the number of grain delivery permits, and farm sizes are derived from the acreages recorded in each permit book. To the extent that individual farm operational units are, in many instances, associated with more than one delivery permit the "number of farms" is overstated while farm sizes are understated. With this in mind the total number of farms declined by 423 from 3,318 to 2,895 or 12.7 per cent. Both in 1962-63 and in 1969-70 the size group containing the most number of farms was 561-720 acres. The mode, or that size of farm occurring most frequently in the study area, actually dropped from 640 to 320 acres (Table 24).

The mean farm size increased by 16.4 per cent from 730 acres to 850 acres (Table 24). The mean increased at every delivery point except Thrasher and Isham where the averages declined 20 acres and 18 acres respectively.

The standard deviation is a statistical concept used to measure the variability of data. As the variability of farm sizes above and below the mean increases so does the standard deviation. Hence, since the standard deviation in the study area in 1969-70 was greater (622 acres) than in 1962-63 (514 acres), it must be concluded that there was greater variability of farm sizes in 1969-70 than in 1962-63. Examination of Table 23 bears this out.

A further interpretation of the standard deviation is that the interval between one standard deviation below the mean to one standard deviation above the mean usually includes about 67 per cent of the observations.¹ For example, in 1969-70 the number of farms in the interval 228 acres (850 minus 622) to 1,472 acres (850 plus 622) should account for about two thirds of the total 2,895 farms. In actual fact, approximately 85 per cent of the farms fall into this interval. Again, examination of Table 23 shows that there is a greater concentration of farms at the lower end of the size groups than at the upper end, resulting in a skewed distribution rather than a normal distribution. Standard deviation values at virtually all delivery points are high in relation to the means (Table 24) indicating a wide range of farm sizes.

In the study area the median farm size increased from 640 acres to 780 acres. This means that in 1962-63 exactly one half the number of farms were less than 640 acres in size, whereas in 1969-70 the dividing line rose to

¹The assumption underlying this interpretation is that the number of observations is sufficiently large and that their distribution is normal.

780 acres. Considering that the median size as well as the mean size increased we can conclude that the number of large farms increased relative to the number of small farms.

The general trend with respect to land tenure has been toward a greater percentage of land being owned by farm operators rather than rented (Table 25). For the total study area the percentage of land owned increased from 71.5 to 75.9 per cent. In 1969-70 the percentage owned values ranged from 45.5 per cent at Mondou to 88.6 per cent at Beadle.

TABLE 23. DISTRIBUTION OF GRAIN FARM SIZES IN THE STUDY AREA, CROP YEARS 1962-63 AND 1969-70

Size Group (acres)	1962-63		1969-70	
	Number of farms	Per cent of Total	Number of farms	Per cent of Total
1 - 240	265	8.0	219	7.6
241 - 400	597	18.0	430	14.8
401 - 560	478	14.4	329	11.4
561 - 720	648	19.5	448	15.5
721 - 880	377	11.4	332	11.5
881 - 1,040	339	10.2	338	11.7
1,041 - 1,200	202	6.1	213	7.3
1,201 - 1,360	142	4.3	196	6.8
1,361 - 1,520	85	2.6	115	4.0
1,521 - 1,680	64	1.9	81	2.8
1,681 - 1,840	43	1.3	59	2.0
1,841 - 2,000	20	.6	30	1.0
2,001 - 2,160	14	.3	26	.9
2,161 - 2,320	12	.4	20	.7
2,321 - 2,480	7	.2	14	.5
2,481 - 2,640	5	.2	5	.2
2,641 - 2,800	5	.2	5	.2
2,801 and over	15	.5	35	1.1
Study Area Total	3,318	100.0	2,895	100.0

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
<i>Too Small to Classify</i>								
Surbiton	10	1,097	818	3,040	320	800	800	401-560 721-880
1962-63								
1969-70	Closed for storage							
Glen Payne	5	637	190	945	480	640	480, 640	401-560 561-720
1962-63								
1969-70	Closed							
Saltburn	19	631	300	1,120	160	640	640, 800	561-720 721-880
1962-63								
1969-70	Closed							
Lille	5	1,049	859	2,376	151	960	No Mode	No Modal Size Group
1962-63								
1969-70	Closed for storage							
Chipperfield	20	684	357	1,440	160	640	320	561-720
1962-63								
1969-70	Closed for storage							
Verendrye	18	597	381	1,337	160	478	320	241-400
1962-63								
1969-70	Closed for storage							
Gaines	19	771	460	1,517	107	777	160, 320, 486	1-240 401-560 881-1,040 1,361-1,520 401-560
1962-63								
1969-70		985	564	2,417	480	789	480	

See footnotes at end of table (continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Mondou								
1962-63	19	1,006	643	2,720	320	800	640	561-720
1969-70	11	1,168	783	2,822	160	1,106	No Mode	1,041-1,200
Inglennook								
1962-63	21	690	328	1,261	160	480	480	401-560
1969-70	16	706	400	1,261	160	640	1,120	1,041-1,200
Penkill								
1962-63	27	608	327	1,410	160	487	960	241-400
								401-560
								881-1,040
								881-1,040
1969-70	13	807	321	1,282	320	801	960	
Sandgren								
1962-63	24	579	244	1,118	160	627	320	561-720
1969-70	18	804	521	2,380	160	640	480	401-560
Witley								
1962-63	26	535	404	1,751	160	320	320	241-400
1969-70	13	676	511	1,759	160	480	160	1-240
								881-1,040
Fortune								
1962-63	35	661	352	1,525	154	640	640	561-720
1969-70	22	730	359	1,525	300	640	320, 640	241-400
								561-720
Juniper								
1962-63	34	728	673	3,940	158	480	480	241-400
1969-70	31	826	746	4,340	158	640	480	401-560
Tichfield								
1962-63	48	668	324	1,460	160	640	320	241-400
1969-70	30	708	375	1,558	160	640	320	241-400

See footnotes at end of table (continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Anerley 1962-63 1969-70	42 46	732 832	438 661	2,000 3,040	75 160	640 640	640 320	561-720 241-400
Matador 1962-63 1969-70	30 23	969 1,209	1,555 1,681	8,984 8,774	160 320	720 960	320 960	241-400 561-720 881-1,040
Ridpath 1962-63 1969-70	23 6	713 928	584 604	2,400 1,760	80 306	615 873	320 No Mode	241-400 241-400
Thrasher 1962-63 1969-70	29 25	947 927	618 581	3,023 2,703	160 312	754 800	480, 1,280 1,280	401-560 401-560
Gunnworth 1962-63 1969-70	32 20	632 747	428 588	1,760 2,560	160 160	557 640	160, 320 160	241-400 561-720 401-560 1-240
Totnes 1962-63 1969-70	34 31	643 751	257 426	1,441 1,441	160 160	640 640	640 320, 640	561-720 241-400
Beadle 1962-63 1969-70	61 65	847 903	525 525	2,720 2,880	160 148	776 800	640 640	561-720 561-720
Hamlets Leach Siding 1962-63 1969-70	28 32	799 986	442 495	2,560 2,160	320 160	793 960	320, 640, 800 800	721-800 721-800

(continued)

See footnotes at end of table

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
McMorran								
1962-63	48	715	370	1,920	315	640	320	241-400
1969-70	33	822	407	1,530	160	640	640	561-720
Bratton								
1962-63	27	662	338	1,280	157	640	320	241-400
1969-70	30	757	370	1,440	157	800	800	561-720
								721-800
Glamis								
1962-63	60	702	453	2,757	160	637	320	401-560
1969-70	34	706	482	2,307	155	637	160, 640	561-720
Tuberose								
1962-63	37	805	857	3,360	160	640	640, 800	561-720
1969-70	30	903	441	2,080	320	956	960	881-1,040
Bickleigh								
1962-63	32	727	437	1,600	160	720	320	241-400
1969-70	22	814	414	1,596	160	800	800	721-800
Snipe Lake								
1962-63	84	720	497	2,560	86	640	640	241-400
1969-70	81	808	628	4,040	14	640	480	241-400
Greenan								
1962-63	19	820	386	1,600	160	800	640	561-720
1969-70	18	932	561	1,900	160	960	960	881-1,040
Isham								
1962-63	62	689	454	2,184	160	640	320	241-400
1969-70	63	671	453	2,240	160	640	320	241-400
McGee								
1962-63	33	541	253	1,120	160	480	480	401-560
1969-70	15	966	634	2,720	160	800	800	721-880

See footnotes at end of table (continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Sanctuary								
1962-63	55	900	462	2,170	156	818	640	561-720
1969-70	45	1,244	1,020	6,720	156	1,120	640, 1,120	561-720 881-1,040 1,041-1,200 1,521-1,680
Tyner								
1962-63	58	679	485	3,200	160	595	320	241-400
1969-70	59	721	370	1,600	80	640	640	561-720
Richlea								
1962-63	74	775	476	2,240	160	640	640	561-720
1969-70	59	939	799	5,120	160	720	320	241-400
Wartime								
1962-63	47	753	526	2,650	141	640	480	401-560
1969-70	43	1,005	624	3,130	160	780	640	561-720
Forgan								
1962-63	76	728	501	4,006	143	640	640	561-720
1969-70	61	884	698	4,006	143	640	640	561-720
D'Arcy								
1962-63	57	694	390	1,993	160	640	320, 640, 960	561-720
1969-70	52	784	512	2,560	160	693	160	561-720
Villages								
Bounty								
1962-63	65	591	385	2,240	160	480	160, 320, 480	241-400
1969-70	48	691	342	2,240	156	640	480	401-560 561-720 721-880

See footnotes at end of table

(continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Hughton	58	969	1,144	8,000	160	640	640	561-720
	63	982	868	5,600	160	680	160, 640, 1,280	561-720
Glidden	84	684	741	6,550	160	640	640	561-720
	61	997	1,213	9,108	160	800	640	561-720
Netherhill	59	801	442	2,080	140	800	640	561-720
	55	893	465	2,257	159	800	640, 800, 960	881-1,040
Madison	76	753	450	2,560	160	640	480	401-560
	68	803	603	4,636	160	747	640	561-720
Fiske	75	843	466	2,238	160	800	640	561-720
	79	980	667	4,393	10	948	320, 640	241-400
Macrorie	52	639	420	1,920	154	592	320	241-400
	44	838	563	2,400	154	640	320	561-720
Plato	56	844	578	3,040	84	640	614	881-1,040
	58	965	572	3,040	84	960	960	241-400
White Bear	107	681	347	1,882	160	640	320	241-400
	105	714	372	1,780	160	640	640	241-400
Stewart Valley	120	679	388	2,240	160	628	320	241-400
	95	748	490	2,240	160	640	160	401-560

See footnotes at end of table

(continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (continued)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Lacadena								
1962-63	72	838	408	2,160	160	800	640	561-720
1969-70	66	903	447	2,560	160	800	800	721-880
Sovereign								
1962-63	62	671	337	1,780	160	640	640	561-720
1969-70	57	826	385	2,100	160	800	960	881-1,040
Wiseton								
1962-63	95	752	401	1,948	140	640	640	561-720
1969-70	73	959	565	2,475	140	960	320, 640, 1,280	241-400
Brock								
1962-63	97	689	386	1,755	54	640	640	401-560
1969-70	87	803	532	3,360	54	796	960	561-720
								401-560
								881-1,040
Towns								
Milden								
1962-63	99	702	412	2,774	106	640	320	241-400
1969-70	82	930	692	3,653	140	755	320	561-720
								241-400
								561-720
Dinsmore								
1962-63	190	632	380	1,920	160	480	320	241-400
1969-70	158	767	440	2,080	50	713	320	241-400
Elrose								
1962-63	71	818	498	2,560	160	640	320	401-560
1969-70	73	978	716	4,480	160	800	640	561-720
								561-720

See footnotes at end of table

(continued)

TABLE 24. AVERAGE ACREAGE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (concluded)

Delivery Point	No. of Farms	Mean Size	Std. Dev.	Maximum Size	Minimum Size	Median Size	Modal Size(s)	Modal Size Group(s)
- acres -								
Kyle								
1962-63	111	584	311	1,760	36	621	320	241-400
1969-70	93	699	376	1,920	160	640	640	561-720
Greater Towns								
Eston								
1962-63	112	829	893	8,000	12	640	320	241-400
1969-70	125	831	706	4,320	21	640	320	241-400
Rosetown								
1962-63	154	711	450	2,880	49	640	640	561-720
1969-70	196	811	649	6,807	49	640	320	241-400
Kindersley								
1962-63	125	830	503	2,560	160	640	640	561-720
1969-70	150	904	659	4,000	155	781	320	241-400
Total Study Area								
1962-63	3,318	730	514	8,984	12	640	640	561-720
1969-70	2,895	850	622	9,108	10	780	320	561-720

Std. Dev. - Standard deviation.

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

TABLE 25. LAND TENURE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70

Delivery Point	Per Cent Owned		Per Cent Rented	
	1962-63	1969-70	1962-63	1969-70
<i>Too Small to Classify</i>				
Pym	-	-	-	-
Surbiton	53.0	-	47.0	-
Glen Payne	50.2	-	49.8	-
Saltburn	76.0	-	24.0	-
Lille	78.7	-	21.3	-
Chipperfield	73.5	-	26.5	-
Verendrye	79.2	-	20.8	-
Gaines	61.1	61.5	38.9	38.5
Mondou	63.6	45.5	36.4	54.5
Inglennook	80.4	80.2	19.6	19.8
Penkill	87.4	78.7	12.6	21.3
Sandgren	93.2	69.6	6.8	30.4
Witley	73.6	72.8	26.4	27.2
Fortune	69.0	68.2	31.0	31.8
Juniper	74.9	81.1	25.1	18.9
Tichfield	71.2	78.9	28.8	21.1
Anerley	85.3	71.6	14.7	28.4
Matador	74.5	84.8	25.5	15.2
Ridpath	66.8	82.8	33.2	17.2
Thrasher	58.8	49.7	41.2	50.3
Gunnworth	60.1	74.6	39.9	25.4
Totnes	73.0	69.9	27.0	30.1
Beadle	67.3	88.6	32.7	11.4
<i>Hamlets</i>				
Leach Siding	68.5	46.5	31.5	53.5
McMorran	72.3	69.2	27.7	30.8
Bratton	58.4	70.0	41.6	30.0
Glamis	72.1	77.4	27.9	22.6
Tuberoze	59.6	63.5	40.4	36.5
Bickleigh	65.1	69.0	34.9	31.0
Snipe Lake	69.0	76.2	31.0	24.8
Greenan	55.9	78.2	44.1	21.8
Isham	64.2	82.0	35.8	18.0
McGee	84.8	85.6	15.2	14.4
Sanctuary	73.8	75.1	26.2	24.9
Tyner	70.8	74.5	29.2	25.5
Richlea	66.3	65.3	33.7	34.7
Wartime	73.5	77.8	26.5	22.2
Forgan	74.9	80.2	25.1	19.8
D'Arcy	75.1	88.4	24.9	11.6

(continued)

TABLE 25. LAND TENURE OF GRAIN FARMS IN THE STUDY AREA, 1962-63 AND 1969-70 (concluded)

Delivery Point	Per Cent Owned		Per Cent Rented	
	1962-63	1969-70	1962-63	1969-70
<i>Villages</i>				
Bounty	67.5	74.3	32.5	25.7
Hughton	77.4	77.1	22.6	22.9
Glidden	82.8	84.9	17.2	15.1
Netherhill	73.3	81.0	26.7	19.0
Madison	63.1	68.8	36.9	31.2
Fiske	76.6	79.7	23.4	20.3
Macrorie	65.2	68.0	34.8	32.0
Plato	71.1	71.6	28.9	29.4
White Bear	72.1	84.4	27.9	15.6
Stewart Valley	69.9	77.1	30.1	22.9
Lacadena	80.1	78.0	19.9	22.0
Sovereign	53.3	63.4	46.7	36.6
Wiseton	74.0	76.7	26.0	23.3
Brock	74.3	82.4	25.7	17.6
<i>Towns</i>				
Milden	69.5	73.2	30.5	26.8
Dinsmore	73.2	82.3	26.8	17.7
Elrose	73.4	71.1	26.6	28.9
Kyle	74.4	74.4	15.6	15.6
<i>Greater Towns</i>				
Eston	69.4	73.6	30.6	26.4
Rosetown	64.0	74.9	36.0	25.1
Kindersley	75.5	77.1	24.5	22.9
Total Study Area	71.5	75.9	28.5	24.1

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

PART III

GRAIN MARKETING AND HANDLING CHARACTERISTICS

Farm Operators' Choice of Delivery Point

In 1966 the Canada Department of Energy, Mines and Resources conducted a marketing survey of grain producers in the Prairie Provinces. Some of the information obtained from the mail questionnaires is summarized in Table 26. The number of returns was low. Only 35 out of a possible 55 delivery points returned a sufficient number of questionnaires to analyze; and of these only 9 returned more than half of their questionnaires. Average response for the 35 points shown was 29 per cent, representing 496 replies.

On the basis of returns received the most important factor governing a farmer's choice of delivery point was shortest hauling distance. In total, 83 per cent indicated shortest hauling distance as a reason for choosing their delivery point. The point with the lowest affirmative replies was Bounty (57 per cent).

"Best road access" and "preference for elevator company" were next in importance averaging 40 per cent and 36 per cent in the affirmative. "Good shopping facilities" and "banking, business, etc." averaged 13 and 8 per cent, respectively. The importance of these increased very substantially as size of community increased, obviously reflecting the existence of a greater variety of services available in larger centers.

TABLE 26. FACTORS GOVERNING GRAIN FARM OPERATORS' CHOICE OF DELIVERY POINT, 1966

Delivery Point	Best Road Access	Preference for Elevator Company	Shortest Hauling Distance	Good Shopping Facilities	Banking, Business, Etc.	Other Reasons	Per cent of Farm Operators Replying to Questionnaire
- per cent of total replies in affirmative -							
<i>Too Small to Classify</i>							
Chipperfield	78	44	100	0	0	0	82
Verendrye	23	15	100	0	0	0	100
Gaines	80	100	100	0	0	0	29
Mondou	20	40	60	0	0	0	42
Inglenook	18	36	91	0	0	0	55
Penkill	0	0	100	0	0	0	86
Witley	9	64	100	0	0	0	55
Fortune	14	29	86	0	0	0	22
Juniper	78	67	89	0	0	0	29
Anerley	11	6	100	0	0	0	37
Matador	29	86	100	0	14	0	28
Thrasher	81	25	94	0	0	0	48
Gunnworth	18	23	96	0	0	0	88
Totnes	60	40	100	0	0	0	16
Beadle	33	20	90	0	0	0	16
<i>Hamlets</i>							
Leach Siding	50	50	83	0	0	0	20
McMorran	38	7	62	0	0	0	67
Bratton	40	60	90	0	5	0	67
Bickleigh	50	50	100	33	17	0	18
Snipe Lake	38	38	100	0	0	0	10
Isham	41	24	100	24	0	0	29
Wartime	80	60	80	20	0	0	13
D'Arcy	44	22	74	4	0	4	43

(continued)

TABLE 26. FACTORS GOVERNING GRAIN FARM OPERATORS' CHOICE OF DELIVERY POINT, 1966

Delivery Point	Best Road Access	Preference for Elevator Company	Shortest Hauling Distance	Good Shopping Facilities	Banking, Business, Etc.	Other Reasons	Per cent of Farm Operators Replying to Questionnaire
- per cent of total replies in affirmative -							
<i>Villages</i>							
Bounty	36	71	57	7	0	0	24
Glidden	19	50	69	6	19	0	23
Netherhill	22	33	89	11	0	0	17
Fiske	37	51	73	17	0	0	56
Stewart Valley	52	28	84	40	0	0	24
Lacadena	0	0	80	47	93	0	20
Sovereign	73	67	73	13	7	0	24
Wiseton	65	59	94	71	65	0	21
Brock	20	20	80	13	13	0	16
<i>Towns</i>							
Milden	77	15	58	31	69	0	31
Elrose	42	25	58	16	17	0	17
Kyle	27	46	91	9	0	0	10
Study Area Total	40	36	83	13	8	0	29

Source: Prairie Farm Marketing Survey, Geographical Branch, Canada Department of Energy, Mines and Resources, 1966. (Unpublished).

Delivery Permit Books Issued

The number of grain delivery permits issued increased by 479 or 14.4 per cent between 1962-63 and 1970-71 as shown in Table 27. The study area totals decreased because of fewer permits issued at nearly all delivery points, reflecting a decline in the number of grain farms in the area. Proportionally, small communities lost more than large communities. The number of permits at eight points increased; namely Beadle, Bratton, Wartime, Hughton, Plato and the three greater towns. Rosetown had the largest increase of 65 permits or 42 per cent.

TABLE 27. DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1970-71

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71 ^a
<i>Too Small to Classify</i>									
Pym	Storage only								
Surbiton	10	Storage only							
Glen Payne	5	Closed							
Saltburn	19	9	Closed						
Lille	5	7	Storage only						
Chipperfield	20	17	14	11	10	10	10	Storage only	
Verendrye	18	17	17	12	13	8	8	Storage only	
Gaines	19	17	17	17	15	16	15	12	Storage only
Mondou	19	17	15	12	12	11	8	11	10
Inglenook	21	20	20	20	17	16	16	16	14
Penkill	27	26	25	22	20	19	20	13	Storage only
Sandgren	24	24	22	19	20	19	21	18	13
Witley	26	23	24	20	17	18	14	13	10
Fortune	35	37	36	32	29	26	26	22	17
Juniper	34	31	32	31	30	32	33	31	30
Tichfield	48	44	41	39	38	37	34	30	30
Anerley	42	49	49	49	48	47	45	46	32
Matador	30	29	27	25	23	23	23	23	22
Ridpath	23	23	19	9	8	8	6	6	5
Thrasher	29	35	33	33	25	24	24	25	22
Gunnworth	32	29	26	25	27	25	24	20	22
Totnes	34	33	32	31	30	31	30	31	22
Beadle	61	62	62	61	58	60	65	65	64
<i>Hamlets</i>									
Leach Siding	28	32	32	30	29	29	30	32	28
McMorran	48	43	43	43	47	46	41	33	35
Bratton	27	30	30	30	27	28	29	30	31
Glamis	60	60	57	52	44	46	45	34	33
Tuberose	37	36	36	36	34	34	31	30	31
Bickleigh	32	33	35	34	33	32	30	22	21
Snipe Lake	84	80	83	82	81	81	83	81	79
Greenan	19	18	17	16	17	17	17	18	Storage only
Isham	62	61	59	58	56	60	62	63	61
McGee	33	28	29	28	43	22	21	15	13
Sanctuary	55	55	55	54	51	48	50	45	45
Tyner	58	56	55	59	62	63	64	59	54
Richlea	74	72	69	74	72	69	68	59	66
Wartime	47	46	43	40	39	38	38	43	50
Forgan	76	74	75	72	67	66	66	61	62
D'Arcy	57	54	55	53	51	48	51	52	52
<i>Villages</i>									
Bounty	65	64	61	58	55	53	50	48	49
Hughton	58	57	53	54	52	49	52	63	62
Glidden	84	76	68	71	66	67	62	61	58
Netherhill	59	58	56	54	54	55	53	55	55
Madison	76	79	77	77	75	77	73	68	68
Fiske	75	76	74	73	69	72	69	79	74
Macrorie	52	48	52	54	52	49	44	44	39
Plato	56	54	56	56	53	49	48	58	67
White Bear	107	112	106	104	106	109	106	105	101
Stewart Valley	120	112	115	106	118	104	105	95	92
Lacadena	72	80	84	76	71	70	68	66	63
Sovereign	62	63	65	62	61	57	59	57	61
Wiseton	95	88	85	82	78	78	74	73	74
Brock	97	91	91	91	84	69	80	87	88

See footnotes at end of table

(continued)

TABLE 27. DELIVERY PERMIT BOOKS ISSUED BY DELIVERY POINT, 1962-63 TO 1970-71 (concluded)

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71 ^a
<i>Towns</i>									
Milden	99	91	85	85	85	83	87	82	86
Dinsmore	190	180	174	174	168	166	165	158	167
Elrose	71	63	69	70	70	68	70	73	71
Kyle	111	108	104	106	102	97	95	93	91
<i>Greater Towns</i>									
Eston	112	113	111	104	105	108	112	125	128
Rosetown	154	164	165	179	191	201	202	196	219
Kindersley	125	130	128	126	132	136	135	150	152
Study Area Total	3,318	3,234	3,163	3,091	3,040	2,974	2,957	2,895	2,839

^aFigures for 1970-71 represent approximately 99 per cent of permits issued.

Source: Delivery Permit Books, Canadian Wheat Board, Winnipeg.

Canadian Wheat Board Initial Payments

Under the Canadian Wheat Board marketing system producers receive an initial payment upon delivery of their grain to the country elevator. Tables 28, 29 and 30 show net initial payments based on a set value at the Lakehead, less freight costs from the delivery point and less country elevator handling charges. The level of initial payment is established each year by the Federal Government as an order-in-council and is not necessarily the same from year to year.¹ Initial payments in 1969-70 (Table 29), for example, were substantially lower than in 1968-69 (Table 28). Of the grains shown, only barley street prices differed in 1970-71 (Table 30) from street prices in the previous year, 1969-70.

Freight rate zones have been established which follow a general north-south orientation and increase by one-cent-per-hundredweight steps as one moves westward from the Lakehead. In the Eston-Elrose study area Stewart Valley and all delivery points east and north of the line drawn just east of Brock, McMorran and Eston, and just north of Witley and Sanctuary, are in a 23-cent freight rate zone. All remaining points are in a 24-cent freight zone.

Since net initial payments are slightly higher in the 23-cent freight rate zone, it follows that a farmer located on or near the boundary between the two freight zones may well take this into account when choosing his delivery point. For example, someone delivering to D'Arcy receives \$1.26 1/4 per bushel (No. 2 wheat, 1969-70) which is 1/2 cent more than the \$1.25 3/4 per bushel he would receive at neighboring Brock. To the extent that this has a bearing on each farmer's choice of delivery point, to that extent also will the size and shape of delivery point hinterlands be affected.

¹For a more detailed description of how the initial payment is arrived at see J.W. Channon, "How Canadian Wheat is Handled," Canadian Journal of Agricultural Economics, Workshop Proceedings, 1969, p. 88.

TABLE 28. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1968-69

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.	No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed	
		- cents/cwt. -							
<i>Too Small to Classify</i>									
Pymb	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Surbiton ^b	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Glen Payne	Closed								
Saltburn	Closed								
Lille ^b	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Chippewfield	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Verendrye	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Gaines	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Mondou	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Inglennook	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Penkill	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Sandgren	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Witley	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Fortune	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Juniper	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Tichfield	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Anerley	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Matador	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Ridpath	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Thrasher	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Gunnworth	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Totnes	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Beadle	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
<i>Hamlets</i>									
Leach Siding	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
McMorrin	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Bratton	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Glamis	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Tuberose	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Bickleigh	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Snipe Lake	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Greenan	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Isham	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
McGee	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Sanctuary	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Tyner	24	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Richlea	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Wartime	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
Forgan	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	
D'Arcy	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8	

(continued)

TABLE 28. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1968-69 (concluded)

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat			Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.	No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed
		- cents/cwt. -						
- dollars per bushel -								
Villages								
Bounty	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Hughton	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Glidden	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Netherhill	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Madison	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Fiske	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Macrorie	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Plato	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
White Bear	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Stewart Valley	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Lacadena	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Sovereign	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Wiseton	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Brock	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Towns								
Milden	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Dinsmore	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Elrose	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Kyle	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Greater Towns								
Eston	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8
Rosetown	23	1.50 1/2	1.46 1/2	1.35 1/2	.52 7/8	.47 7/8	.89 3/8	.80 3/8
Kindersley	24	1.50	1.46	1.35	.52 1/2	.47 1/2	.88 7/8	.79 7/8

^aFlaxseed and Rapeseed 1 1/2 cents per hundredweight higher.

^bStorage only.

Source: Canadian Wheat Board, Winnipeg.

TABLE 29. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1969-70

Delivery Point	Grain Freight Rates to Lakehead ^a - cents/cwt. -	Wheat		Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed
		- dollars per bushel -					
Too Small to Classify							
Pymb	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Surbiton ^b	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Glen Payne	Closed						
Saltburn	Closed						
Lille ^b	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Chipperfield ^b	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Verendrye ^b	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Gaines	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Mondou	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Inglennook	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Penkill	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Sandgren	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Witley	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Fortune	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Juniper	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Tichfield	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Anerley	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Matador	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Ridpath	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Thrasher	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Gunworth	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Totnes	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Beadle	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Hamlets							
Leach Siding	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
McMorran	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Bratton	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Glamis	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Tuberose	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Bickleigh	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Snipe Lake	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Greenan	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Isham	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
McGee	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Sanctuary	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Tyner	24	1.29 3/4	1.25 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8
Richlea	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Wartime	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
Forgan	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8
D'Arcy	23	1.30 1/4	1.26 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8

See footnotes at end of table (continued)

TABLE 29. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1969-70 (concluded)

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.	No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed	
		- cents/cwt. -							- dollars per bushel -
Villages									
Bounty	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Hughton	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Glidden	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Netherhill	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Madison	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Fiske	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Macrorie	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Plato	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
White Bear	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Stewart Valley	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Lacadena	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Sovereign	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Wiseton	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Brock	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Towns									
Milden	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Dinsmore	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Elrose	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Kyle	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Greater Towns									
Eston	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	
Rosetown	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.74 1/8	.64 1/8	
Kindersley	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.73 5/8	.63 5/8	

^aFlaxseed and Rapeseed 1 1/2 cents per hundredweight higher.^bStorage only.

Source: Canadian Wheat Board, Winnipeg.

TABLE 30. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1970-71

Delivery Point	Grain Freight Rates to Lakehead ^a	Wheat				Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.	No. 2 Northern and No. 2 C.W.A.D.	No. 4 Northern and No. 4 C.W.A.D.	- dollars per bushel -	No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed
Too Small to Classify									
Pym ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Surbiton ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Glen Payne	Closed								
Saltburn	Closed								
Lille ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Chipperfield ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Verendrye ^b	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Gaines ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Mondou	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Ingenook	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Penkill ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Sandgren	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Witley	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Fortune	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Juniper	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Tichfield	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Anerley	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Matador	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Ridpath	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Thrasher	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Gunnworth	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Totnes	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Beadle	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Hamlets									
Leach Siding	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
McMorrin	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Bratton	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Glamis	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Tuberosé	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Bickleigh	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Snipe Lake	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Greenan ^b	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Isham	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
McGee	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Sanctuary	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Tyner	24	1.29 3/4	1.25 3/4	1.12 3/4		.47 1/4	.42 1/4	.83 5/8	.73 5/8
Richlea	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Wartime	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
Forgan	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8
D'Arcy	23	1.30 1/4	1.26 1/4	1.13 1/4		.47 5/8	.42 5/8	.84 1/8	.74 1/8

See footnotes at end of table

(continued)

TABLE 30. CANADIAN WHEAT BOARD NET INITIAL PAYMENTS TO PRODUCERS ("STREET PRICES") BY DELIVERY POINT, CROP YEAR 1970-71 (concluded)

Delivery Point	Grain Freight Rates to Lakehead ^a - cents/cwt. -	Wheat				Oats		Barley	
		No. 1 Northern and No. 1 C.W.A.D.		No. 2 Northern and No. 2 C.W.A.D.		No. 2 C.W.	No. 1 Feed	No. 3 C.W. 6 Row	No. 1 Feed
		No. 1 Northern and No. 1 C.W.A.D.		No. 2 Northern and No. 2 C.W.A.D.					
		No. 1 Northern and No. 1 C.W.A.D.		No. 2 Northern and No. 2 C.W.A.D.					
		- dollars per bushel -							
<i>Villages</i>									
Bounty	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Hughton	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Glidden	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
Netherhill	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
Madison	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
Fiske	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Macrorie	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Plato	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
White Bear	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Stewart Valley	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Lacadena	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
Sovereign	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Wiseton	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Brock	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
<i>Towns</i>									
Milden	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Dinsmore	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Elrose	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Kyle	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
<i>Greater Towns</i>									
Eston	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	
Rosetown	23	1.30 1/4	1.26 1/4	1.13 1/4	.47 5/8	.42 5/8	.84 1/8	.74 1/8	
Kindersley	24	1.29 3/4	1.25 3/4	1.12 3/4	.47 1/4	.42 1/4	.83 5/8	.73 5/8	

^aFlaxseed and Rapeseed 1 1/2 cents per hundredweight higher.

^bStorage only.

Source: Canadian Wheat Board, Winnipeg.

Number and Capacity of Country Elevators

The number and storage capacity of grain elevators at any particular delivery point is a measure of the importance of that point as a grain collection and distribution center.¹ Table 31 contains this information, again for the crop years 1962-63 and 1969-70. The number of grain elevator companies represented at each point in 1962 and 1969 is also shown.

All but eight points had the same number of elevators in 1969-70 as in 1962-63. Six delivery points each had one less elevator in 1969-70 than in 1962-63 while the two largest centers in the area together had five additional elevators, for an overall net decrease of one elevator in the study area. However, numerous points, other than those too small to classify, increased their storage capacities with Rosetown showing the largest increase of 688 thousand bushels, which brings its capacity to more than double its 1962-63 capacity of 509 thousand bushels. Total storage capacity in the study area increased by 1.4 million bushels or 11.0 per cent.

Examination of the number of grain companies present at each delivery point reveals the fact that where two or more elevators exist, often two or more companies are present also. This is an indication of the degree of competition among elevator companies. It is also noteworthy that between 1962 and 1969 the number of companies present decreased by one in each of 17 delivery points. Rosetown was the only point where an additional grain company moved in.

¹Bushel receipts should also be taken into account. See Table 32.

TABLE 31. NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- '000 bushels -		- number -	
<i>Too Small to Classify</i>						
Pym	1 ^a	1 ^a	48	28	1	1
Surbiton	1	1 ^a	39	39	1	1
Glen Payne	1	Closed	52	-	1	-
Saltburn	1	Closed	28	-	1	-
Lille	1	1 ^a	28	28	1	1
Chipperfield	1	1 ^a	61	61	1	1
Verendrye	1	1 ^a	50	50	1	1
Gaines	2	2	100	100	2	1
Mondou	2	2	134	108	2	1
Inglenook	1	1	45	45	1	1
Penkill	1	1	72	72	1	1
Sandgren	1	1	52	52	1	1
Witley	2	2	142	142	2	1
Fortune	2	2	166	166	2	1
Juniper	2	2	51	51	1	1
Tichfield	3	3	79	79	2	1
Anerley	3	3	94	94	2	1
Matador	2	2	103	103	1	1
Ridpath	2	2	68	68	2	2
Thrasher	2	2	167	167	2	2
Gunnworth	2	2	172	172	2	2
Totnes	2	2	164	164	2	2
Beadle	3	3	223	223	3	2
<i>Hamlets</i>						
Leach Siding	2	2	92	92	2	2
McMorran	2	2	158	144	2	2
Bratton	1	1	50	50	1	1
Glamis	3	3	265	265	2	2
Tuberoose	3	3	192	192	2	1
Bickleigh	2	2	100	100	2	1
Snipe Lake	4	4	368	368	4	3
Greenan	1	1	25	25	1	1
Isham	3	3	279	274	3	3
McGee	2	2	72	72	1	1
Sanctuary	3	3	262	262	2	2
Tyner	3	3	247	247	3	3
Richlea	5	4	470	474	3	3
Wartime	3	3	194	220	2	2

See footnotes at end of table

(continued)

TABLE 31. NUMBER AND CAPACITY OF LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 AND 1969-70 (concluded)

Delivery Point	Number of Elevators		Storage Capacity		Number of Grain Companies	
	1962-63	1969-70	1962-63	1969-70	Aug. 1, 1962	Aug. 1, 1969
	- number -		- '000 bushels -		- number -	
Forgan	4	4	468	526	3	2
D'Arcy	3	3	130	137	2	2
<i>Villages</i>						
Bounty	3	3	172	186	2	2
Hughton	5	5	438	429	4	3
Glidden	4	4	342	429	3	3
Netherhill	3	3	285	285	3	3
Madison	5	5	502	577	4	3
Fiske	2	2	241	241	2	2
Macrorie	2	2	67	67	2	1
Plato	3	3	163	226	2	2
White Bear	3	3	283	294	2	2
Stewart Valley	4	4	203	203	3	3
Lacadena	3	3	212	220	2	2
Sovereign	5	4	342	354	3	3
Wiseton	6	5	365	363	3	3
Brock	3	3	249	330	3	3
<i>Towns</i>						
Milden	5	5	422	472	3	3
Dinsmore	6	5	511	584	4	3
Elrose	4	4	371	392	4	3
Kyle	4	4	350	345	3	3
<i>Greater Towns</i>						
Eston	5	5	641	641	4	4
Rosetown	5	8	509	1,197	3	4
Kindersley	4	6	685	981	4	3
Study Area Total	167	166	12,863	14,276	7 ^b	5 ^b

^aElevator used for storage only.

^bGrain companies represented are:

Saskatchewan Wheat Pool

United Grain Growers Ltd.

Federal Grain Ltd.

National Grain Co. Ltd.

Pioneer Grain Co. Ltd.

Searle Grain Co. Ltd. (Not present in 1969-70)

McCabe Grain Co. Ltd. (Not present in 1969-70)

Source: Canadian Grain Commission, Winnipeg.

Receipts of Grain at Country Elevators

Annual receipts of grain at a particular delivery point is another measure of its relative importance as a grain collection and distribution center. Receipts for crop years 1962-63 through to 1969-70 and a ten-year average, 1960-61 to 1969-70, are presented in Table 32 for each delivery point in the study area.

Of all points still in operation as of 1969-70, ten-year average receipts range from 85 thousand bushels at Ridpath to 1,111 thousand bushels at Rosetown. Note that by rank Ridpath is too small to classify whereas Rosetown is a greater town. The observation that receipts increase as size of community increases can be further illustrated by listing the average of the ten-year averages for each community class size as follows: too small to classify (i.e. of those still open) 180; hamlets 310; villages 447; towns 641; and greater towns 995 thousand bushels.

Receipts vary considerably from year to year reflecting such things as crop yields and grain marketings. Total receipts in the study area ranged from a low of about 16.8 million bushels in 1968-69 to a high of 28.7 million bushels in 1966-67.

TABLE 32. RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1969-70 AND TEN-YEAR AVERAGE

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69 ^a	1969-70 ^a	Ten-Year Average 1960-61 to 1969-70
- '000 bushels -									
<i>Too Small to Classify</i>									
Pym	-	-	-	-	-	-	-	-	11
Surbiton	74	-	-	-	-	-	-	-	30
Glen Payne	14	-	-	-	-	-	-	-	10
Saltburn	71	46	-	-	-	-	-	-	34
Lille	31	44	-	-	-	-	-	-	21
Chipperfield	96	102	59	68	77	50	41	-	73
Verendrye	131	144	121	98	90	35	29	-	97
Gaines	117	121	101	143	185	105	101	93	125
Mondou	114	130	70	101	145	91	70	108	109
Inglennook	148	150	125	130	151	72	82	96	128
Penkill	174	178	142	161	197	105	98	26	145
Sandgren	165	169	148	148	195	115	98	121	140
Witley	178	199	145	157	170	84	67	87	143
Fortune	225	262	209	181	275	167	150	131	201
Juniper	165	202	136	117	178	101	103	115	147
Tichfield	150	236	129	174	196	128	113	123	161
Anerley	259	367	289	311	407	257	262	285	279
Matador	246	274	215	240	341	211	182	213	231
Ridpath	105	147	79	73	74	41	40	38	85
Thrasher	202	326	186	231	301	173	154	177	226
Gunworth	117	181	96	146	198	130	120	124	136
Totnes	201	230	208	214	278	101	148	174	203
Beadle	416	518	390	462	595	350	413	583	415
<i>Hamlets</i>									
Leach Siding	213	302	224	266	356	210	206	237	237
McMorrان	330	416	341	407	461	241	195	238	314
Bratton	128	200	165	163	209	129	114	148	143
Glamis	339	484	340	392	414	247	226	228	346
Tuberose	188	193	172	205	369	248	222	202	215
Bickleigh	201	254	201	225	278	168	153	134	206
Snipe Lake	641	647	516	647	783	466	444	611	579
Greenan	90	113	82	103	144	85	87	102	88
Isbam	390	408	311	416	521	334	322	412	369
McGee	104	151	106	130	162	106	87	82	118
Sanctuary	294	375	276	404	640	427	341	451	373
Tyner	327	324	226	414	560	405	353	405	348
Richlea	611	681	594	644	807	456	475	764	598
Wartime	248	342	261	307	464	276	297	426	299
Forgan	394	438	367	483	571	408	380	424	433
D'Arcy	266	398	316	320	444	269	249	333	298

(continued)

See footnotes at end of table

TABLE 32. RECEIPTS OF GRAIN AT LICENSED COUNTRY ELEVATORS BY DELIVERY POINT, 1962-63 TO 1969-70 AND TEN-YEAR AVERAGE (concluded)

Delivery Point	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69 ^a	1969-70 ^a	Ten-Year Average 1960-61 to 1969-70
- '000 bushels -									
<i>Villages</i>									
Bounty	235	334	243	289	371	225	195	215	260
Hughton	347	502	320	494	610	391	372	613	423
Glidden	512	550	439	474	692	416	413	482	471
Netherhill	454	561	449	501	637	372	330	498	456
Madison	706	721	596	782	833	504	460	591	654
Fiske	369	526	404	482	621	378	349	463	408
Macrorie	175	310	199	211	291	183	182	163	211
Plato	395	441	230	422	531	313	309	409	384
White Bear	533	578	410	682	941	622	585	590	601
Stewart Valley	451	622	436	557	763	480	380	447	504
Lacadena	274	346	231	483	625	435	382	379	387
Sovereign	476	506	349	500	616	361	370	468	458
Wiseton	474	627	396	578	802	476	515	570	526
Brock	526	658	525	614	712	416	416	626	519
<i>Towns</i>									
Milden	605	664	470	666	835	519	543	676	600
Dinsmore	872	1,112	705	842	1,197	734	727	841	836
Elrose	416	481	402	528	773	483	484	586	491
Kyle	566	635	511	725	994	640	561	568	637
<i>Greater Towns</i>									
Eston	925	897	741	927	1,149	743	668	975	819
Rosetown	900	1,298	1,019	1,271	1,831	1,130	1,209	1,466	1,111
Kindersley	1,099	1,118	977	1,149	1,659	956	940	1,203	1,055
Study Area Total	19,473	23,239	17,398	21,858	28,719	17,568	16,812	20,520	19,925

^aRapeseed is included in 1968-69 and 1969-70 but excluded from receipts in all previous years.

Source: Canadian Grain Commission, Winnipeg.

Canadian Wheat Board Specified Acreage

Prior to the beginning of the 1970-71 crop year the basis for determining each producer's general grain delivery quota was the so-called "specified acreage." This referred to farm land devoted to cereal crops, summerfallow and cultivated forage crops. Excluded were oilseeds, other miscellaneous crops, native pasture and unimproved farm land. Oilseeds had their own quotas based on declared seeded acreage.

The number of specified acres tributary to a delivery point is an indicator of the amount of grain producing land available and an indicator of the demand for grain handling and storage facilities at that point. Table 33 shows the specified acreage for each delivery point for the period 1962-63 to 1969-70. In 1969-70 about 2.1 million acres, out of the total farm acreage of about 2.5 million (Table 19), made up the specified portion. Therefore, a one bushel general quota in the study area would bring forth about 2.1 million bushels of grain.

Total specified acreage over the period increased 18.3 per cent. Only four hamlets and two villages experienced a decline in specified acreage. Of those points too small to classify, nine declined in specified acreage while seven points increased. Leach Siding showed the largest increase (73.2 per cent) while Glamis had the largest decline (43.4 per cent). Several points too small to classify experienced rather large gains, i.e., Anerley 61.0 per cent, Sandgren 30.7 per cent, Matador 25.8 per cent and Beadle 24.6 per cent. The largest absolute increase occurred at Rosetown which increased in excess of 45 thousand acres, while the largest absolute decrease occurred at Glamis which declined by over 14 thousand acres.

Table 34 simply provides some added detail with respect to the make up of specified acreage. For each delivery point, both the number of acres and the per cent of total specified acres devoted to Canadian Wheat Board grains are shown. Just as the land use pattern referred to earlier in Tables 18 and 19, the pattern with respect to Wheat Board grains is fairly uniform throughout. In 1962-63 durum was not included as a Wheat Board grain, thus, the percentage is somewhat lower than in the rest of the period. Roughly 50 per cent of specified acreage was seeded to wheat, durum, oats and barley. The study area total decreased slightly from 53.7 per cent in 1963-64 to 50.8 per cent in 1969-70.

TABLE 33. CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Per cent of change 1962-63 to 1969-70
- acres -									
<i>Too Small to Classify</i>									
<i>Pym</i>									
Surbiton	Storage only	-	-	-	-	-	-	-	-
Glen Payne	2,393	-	-	-	-	-	-	-	-
Saltburn	6,727	Closed	-	-	-	-	-	-	-
Lille	3,010	6,067	-	-	-	-	-	-	-
Chipperfield	10,204	11,064	Closed	-	-	-	-	-	-
Verendrye	9,065	9,540	Storage only	6,774	6,524	6,599	6,304	Storage only	-
Gaines	11,361	11,471	8,819	9,260	7,764	4,749	4,733	Storage only	-
Mondou	11,891	12,825	12,398	12,228	12,449	12,893	10,233	9,138	-19.6
Inglebrook	12,062	12,730	13,256	12,642	12,742	12,097	10,011	12,086	+1.6
Penkill	13,435	15,628	12,875	11,899	10,595	10,145	10,542	10,234	-15.2
Sandgren	11,130	13,303	15,918	14,397	14,012	14,424	14,712	8,881	-33.9
Witley	10,603	12,345	12,754	12,935	13,609	13,899	14,756	14,542	+30.7
Fortune	21,868	22,328	12,544	14,032	11,935	11,168	6,859	8,390	-20.9
Juniper	16,420	16,979	17,476	22,199	20,669	20,656	19,563	14,289	-34.7
Tichfield	23,318	23,675	22,322	23,129	15,634	15,677	16,738	18,426	+12.2
Anerley	21,041	33,560	34,293	33,599	31,616	33,120	34,077	33,872	-20.7
Matador	18,527	24,541	24,830	23,327	23,319	23,853	23,863	23,308	+61.0
Ridpath	12,181	14,073	12,341	7,341	5,681	5,713	5,478	5,253	+25.8
Thrasher	23,607	29,717	27,377	27,621	24,127	23,683	20,738	20,146	-56.9
Gunnworth	15,283	16,058	15,269	16,057	16,650	16,952	15,287	14,222	-14.7
Totnes	17,757	20,136	18,098	21,764	21,873	22,332	21,432	20,001	-6.9
Beadle	40,195	45,793	45,118	43,036	43,188	46,239	52,429	50,073	+12.6
									+24.6
<i>Hamlets</i>									
Leach Siding	17,326	24,097	24,315	25,491	25,999	25,979	27,272	30,013	+73.2
McMorrin	26,966	29,113	30,125	30,697	33,389	32,786	26,543	23,138	-14.2
Bratton	14,672	19,504	19,523	17,995	17,893	18,167	17,647	19,408	+32.3
Glamis	34,367	37,509	38,314	33,733	29,894	30,222	27,281	19,468	-43.4
Tuberose	15,594	25,923	26,653	24,045	24,566	25,590	24,783	24,602	+57.8
Bickleigh	19,217	21,275	21,533	23,239	24,031	24,181	23,257	16,374	-14.8
Snipe Lake	44,542	52,847	52,781	54,912	54,264	55,431	56,091	54,736	+22.9
Greenan	10,050	10,930	11,970	12,710	12,520	12,831	13,026	13,481	+34.1
Isham	30,218	34,333	33,630	36,803	35,131	37,083	37,126	35,135	+16.6
McGee	13,984	13,371	14,341	16,583	20,455	16,394	15,685	10,732	-23.3
Sanctuary	33,103	45,044	46,146	47,113	47,701	49,517	48,933	48,747	+47.3
Tyner	29,466	35,405	36,006	37,748	39,769	44,234	43,293	41,464	+40.7
Richlea	46,495	53,277	53,782	52,793	55,500	57,264	56,696	51,302	+10.3
Wartime	24,644	30,897	32,932	34,603	35,682	35,900	34,931	38,738	+57.2
Forgan	43,070	49,784	50,285	49,962	50,410	51,945	50,759	47,703	+10.8
D'Arcy	31,888	35,911	36,465	35,007	34,963	35,977	36,782	39,680	+24.4

(continued)

See footnotes at end of table

TABLE 33. CANADIAN WHEAT BOARD SPECIFIED ACREAGE FOR DELIVERY QUOTA PURPOSES BY DELIVERY POINT, 1962-63 TO 1969-70 (concluded)

Delivery Point	1962-63 ^a	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	Per cent of change 1962-63 to 1969-70
- acres -									
<i>Villages</i>									
Bounty	27,493	34,324	34,750	34,349	32,217	31,263	28,884	27,146	- 1.3
Hughton	41,098	48,219	46,741	47,462	49,063	49,481	48,833	53,042	+29.1
Glidden	44,524	51,715	51,250	54,600	56,154	58,214	54,951	55,993	+25.8
Netherhill	39,325	42,596	43,711	45,281	47,813	46,817	46,578	47,257	+20.2
Madison	45,273	53,958	53,572	54,813	55,835	57,518	54,415	50,077	+10.6
Fiske	47,031	50,541	48,810	51,033	53,856	54,748	55,118	60,344	+28.5
Macrorie	23,853	27,165	27,311	28,680	28,139	28,413	27,838	27,747	+16.3
Plato	34,635	40,041	41,100	40,986	40,707	41,214	41,013	44,824	+29.4
White Bear	39,711	60,489	64,551	63,685	63,570	65,353	64,430	63,227	+59.2
Stewart Valley	51,518	59,814	61,816	61,244	69,770	60,383	61,318	56,931	+10.5
Lacadena	35,149	52,559	57,118	53,181	50,769	52,073	49,964	49,308	+40.3
Sovereign	34,934	37,708	39,131	40,448	41,572	41,303	38,805	39,198	- 1.8
Wiseton	56,676	63,665	62,490	64,795	62,406	64,271	64,050	61,529	+ 8.6
Brock	53,719	54,825	55,687	57,782	56,253	48,567	55,228	62,153	+15.7
<i>Towns</i>									
Milden	55,366	61,778	60,711	61,599	64,380	65,848	66,207	64,399	+16.3
Dinsmore	92,132	98,346	99,392	99,879	101,156	102,902	101,224	100,717	+ 9.3
Elroose	40,967	51,384	57,487	57,533	58,977	58,972	58,786	57,600	+40.6
Kyle	35,725	56,933	58,848	60,078	61,092	61,689	61,511	61,303	+71.6
<i>Greater Towns</i>									
Eston	69,775	83,217	83,399	79,396	82,016	87,541	84,259	89,768	+28.7
Rosetown	86,685	106,145	107,671	117,045	131,019	140,053	134,236	131,770	+52.0
Kindersley	85,873	99,283	98,801	104,099	122,706	128,404	127,110	126,789	+47.6
Study Area Total	1,797,491	2,110,601	2,119,840	2,138,758	2,186,320	2,215,107	2,172,643	2,127,185	+18.3

^aDurum excluded from specified acreage in 1962-63.

Source: Canadian Wheat Board, Winnipeg.

TABLE 34. NUMBER AND PER CENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS,^a 1962-63 TO 1969-70

Delivery Point	1962-63 ^b		1963-64		1964-65		1965-66		1966-67		1967-68		1968-69		1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
<i>Too Small to Classify</i>																
Pym																
Surbiton	4,082	48.9	-	-	4,495	50.9	3,735	55.1	3,075	47.1	3,570	54.0	3,320	52.7	-	-
Glen Payne	1,330	55.6	-	-	5,126	54.0	4,312	46.5	3,919	50.4	2,698	56.8	2,544	53.8	-	-
Saltburn	2,678	39.8	-	-	7,114	57.3	7,617	62.2	7,285	58.5	7,520	58.3	5,423	53.0	4,741	51.9
Lille	875	29.0	3,269	53.8	-	-	-	-	6,890	55.2	6,476	53.5	5,346	53.4	7,162	59.3
Chipperfield	4,567	44.7	6,000	54.2	-	-	-	-	5,584	46.9	4,794	47.2	5,483	52.0	4,721	46.1
Verendrye	4,256	46.9	5,092	53.5	6,510	50.5	5,584	46.9	5,311	50.3	4,794	47.2	5,483	52.0	3,906	44.0
Gaines	5,884	51.7	6,483	56.5	7,830	59.0	7,441	51.6	7,337	52.3	7,002	48.5	7,680	52.2	7,506	51.6
Mondou	5,142	43.2	6,961	54.2	8,363	52.5	7,441	51.6	7,206	52.9	7,219	51.9	8,283	56.1	7,506	51.6
Inglebrook	5,522	45.7	6,565	51.5	7,227	56.6	6,607	51.0	6,927	52.0	6,546	58.6	3,730	54.4	3,820	45.5
Penkill	6,084	45.2	8,065	51.6	7,227	56.6	7,441	51.6	7,337	52.3	7,002	48.5	7,680	52.2	7,506	51.6
Sandgren	5,040	45.2	7,278	54.7	6,671	54.0	7,608	54.2	6,927	52.0	6,546	58.6	3,730	54.4	3,820	45.5
Witley	4,271	40.2	6,671	54.0	11,039	51.2	11,637	52.4	11,165	54.0	11,153	53.9	11,156	57.0	6,779	47.4
Fortune	10,615	48.5	11,940	53.4	9,210	52.7	8,136	53.8	12,174	54.6	12,014	57.3	9,660	57.7	10,100	54.8
Titcher	11,143	47.7	12,226	51.6	11,393	51.0	12,253	52.9	12,174	54.6	12,014	57.3	10,746	53.7	9,307	50.4
Anerley	8,390	39.8	18,602	55.4	18,030	52.5	18,171	54.0	19,198	60.7	18,653	56.3	18,994	55.7	17,913	52.9
Matador	6,832	36.8	12,495	50.9	12,989	50.3	12,051	51.6	14,551	62.3	13,130	55.0	12,648	53.0	11,809	50.7
Ridpath	6,407	52.5	7,914	56.2	6,026	42.8	4,634	63.1	2,975	52.3	3,136	54.8	2,888	52.7	2,676	50.9
Thrasher	10,968	46.4	16,687	56.1	15,889	58.0	14,634	52.9	13,522	56.0	13,726	57.9	12,407	59.8	9,477	47.0
Gunnworth	7,004	45.8	9,049	56.3	8,496	55.6	9,149	56.9	10,330	62.0	10,007	59.0	8,448	55.3	7,505	52.8
Totnes	7,721	43.4	10,690	53.0	9,443	52.1	11,400	52.3	11,384	52.0	12,948	57.9	11,338	52.9	9,540	47.7
Beadle	19,256	47.9	23,428	51.1	22,327	49.4	22,114	51.3	23,142	53.5	25,021	54.1	28,077	53.6	24,789	49.5
<i>Hamlets</i>																
Leach Siding	7,071	40.8	12,739	52.8	12,737	52.3	13,828	54.2	14,491	55.7	14,475	55.7	14,886	54.6	15,615	52.0
McMorrin	12,306	45.6	15,600	53.5	15,311	50.8	16,867	54.9	18,610	55.7	17,724	54.0	13,906	52.4	11,735	50.7
Bratton	7,422	50.5	12,292	63.0	11,112	56.9	10,315	57.3	10,736	60.0	10,574	58.7	9,997	56.6	10,433	53.8
Glamis	16,096	46.8	20,986	55.9	21,213	55.3	17,400	51.5	17,057	57.0	17,556	58.0	14,334	52.5	9,191	47.2
Tuberose	3,682	23.6	13,851	53.4	14,113	52.9	13,905	57.8	14,797	60.2	15,388	60.1	14,081	56.8	13,111	53.3
Bickleigh	8,878	46.1	11,400	53.5	11,329	52.6	12,431	53.4	13,043	54.2	14,318	59.2	12,741	54.8	8,496	51.9
Shipe Lake	19,055	42.7	27,483	52.0	27,349	51.8	28,491	51.8	30,551	56.3	31,942	57.6	30,107	53.7	27,417	50.1
Greenan	4,692	46.6	5,595	51.1	6,065	50.6	6,661	52.4	6,645	53.0	6,851	53.3	6,845	52.5	6,665	49.4
Isnam	11,915	39.4	18,099	52.7	17,078	50.7	19,301	52.4	20,195	57.4	22,367	60.3	19,597	52.8	16,336	46.5
McGe	7,018	50.1	6,916	51.7	8,228	57.3	8,371	50.4	10,754	52.5	9,248	56.4	8,473	54.0	5,386	50.2
Sanctuary	11,319	34.1	23,770	52.7	23,408	50.7	25,031	53.1	26,867	56.3	27,202	54.9	26,917	55.0	24,692	50.7
Tyner	11,727	39.7	18,173	51.3	18,520	51.4	18,988	50.3	21,770	54.7	24,989	56.4	24,823	57.3	21,574	52.0
Richlea	20,406	43.8	27,237	51.1	27,470	51.0	28,500	53.9	29,848	53.7	31,942	55.7	29,653	52.3	23,057	44.9
Wartime	20,118	46.2	17,203	55.6	18,492	56.1	19,161	55.3	21,485	60.2	21,675	60.3	19,729	56.5	20,392	52.6
Forgan	20,118	46.2	27,640	55.5	27,573	54.8	28,027	56.1	28,821	57.2	29,566	56.9	30,235	59.6	25,139	52.7
D'Arcy	16,108	50.5	18,352	51.1	19,407	53.2	19,247	55.0	19,103	54.6	20,515	57.0	20,197	54.9	19,212	48.4

(continued)

See footnotes at end of table

TABLE 34. NUMBER AND PER CENT OF SPECIFIED ACRES DEVOTED TO CANADIAN WHEAT BOARD GRAINS, ^a 1962-63 TO 1969-70 (concluded)

Delivery Point	1962-63 ^b		1963-64		1964-65		1965-66		1966-67		1967-68		1968-69		1969-70	
	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%	acres	%
<i>Villages</i>																
Bounty	14,430	52.5	20,122	58.6	20,086	57.8	19,166	55.8	19,388	60.2	17,502	56.0	16,646	57.6	14,087	51.9
Hughton	18,586	45.2	25,797	53.5	26,136	55.9	26,007	54.8	29,613	60.4	30,183	61.0	28,759	58.9	27,221	51.3
Glidden	19,530	43.9	26,184	50.6	26,672	52.0	27,434	50.2	29,483	52.5	30,894	53.1	28,431	51.7	28,230	50.4
Netherhill	18,841	47.9	22,291	52.3	22,783	52.1	23,421	51.7	25,488	53.3	24,723	52.8	24,991	53.7	23,119	48.9
Madison	18,813	41.6	27,417	50.8	27,917	52.1	26,717	48.7	30,880	55.3	31,443	54.7	29,458	54.1	23,788	47.5
Fiske	24,611	52.3	26,105	51.7	25,895	53.1	26,878	52.7	28,226	52.4	29,227	53.4	29,251	53.1	30,108	49.9
Macrorie	11,065	46.4	15,879	58.5	13,967	51.1	15,223	53.1	15,589	55.4	15,173	53.4	15,487	55.6	14,432	52.0
Plato	14,687	42.4	21,071	52.6	21,624	52.6	21,577	52.6	22,890	56.2	23,509	57.0	22,325	54.4	23,188	51.7
White Bear	12,140	30.6	33,963	56.1	34,288	53.1	36,336	57.1	40,157	63.2	40,327	61.7	35,731	55.5	33,097	52.3
Stewart Valley	22,604	43.9	31,021	51.9	31,121	50.3	31,253	51.0	37,671	54.0	32,026	53.0	31,635	51.6	27,879	49.0
Lacadena	11,557	32.9	27,201	51.8	29,738	52.1	29,266	55.0	28,479	56.1	29,454	56.6	26,529	53.1	25,868	52.5
Sovereign	17,552	44.0	20,018	53.1	21,040	53.8	23,754	58.7	24,436	58.8	23,254	56.3	20,965	54.0	17,836	45.5
Wiseton	25,527	45.0	33,592	52.8	31,731	50.8	32,867	50.7	32,286	51.7	35,357	55.0	35,035	54.7	31,945	51.9
Brock	26,015	48.4	28,897	52.7	28,484	51.2	29,452	51.0	28,636	50.9	25,144	51.8	30,100	54.5	29,255	47.1
<i>Towns</i>																
Milden	27,998	50.6	36,417	58.9	34,490	56.8	37,025	60.1	39,758	61.8	38,343	58.2	37,918	57.3	34,208	53.1
Dinsmore	45,582	49.5	54,330	55.2	53,260	53.6	54,519	54.6	58,599	57.9	58,511	56.9	57,399	56.7	54,161	53.8
Elrose	17,395	42.5	29,538	57.5	32,070	55.8	31,562	54.9	33,839	57.4	34,740	58.9	33,675	57.3	31,325	54.4
Kyle	10,065	28.2	31,429	55.2	31,446	53.4	33,423	55.6	36,453	59.7	35,157	57.0	33,863	55.1	32,289	52.7
<i>Greater Towns</i>																
Eston	32,326	46.3	42,440	51.0	42,898	51.4	43,253	54.5	46,774	57.0	50,566	57.8	47,280	56.1	44,584	49.7
Rosetown	37,890	43.7	59,322	55.9	58,004	53.9	63,152	54.0	75,133	57.3	81,178	58.0	74,888	55.8	69,407	52.7
Kindersley	39,801	46.3	52,017	52.4	53,412	54.1	54,160	52.0	69,160	56.4	73,651	57.4	73,049	57.5	64,537	50.9
Study Area Total	802,284	44.6	1,133,605	53.7	1,124,614	53.1	1,146,948	53.6	1,232,613	56.4	1,251,404	56.5	1,198,107	55.1	1,080,766	50.8

^aWheat Board Grains are: Wheat, Durum, Oats, Barley.

^bDurum excluded from Wheat Board Grains in 1962-63.

Source: Canadian Wheat Board, Winnipeg.

Quotas Required to Fill Elevator Storage Capacity

Table 35 shows the relationship between elevator storage capacity and specified acreage as these relate to the general quota. The ratio of bushel capacity to specified acreage represents the number of quotas, in bushels per acre, required to completely fill an empty delivery point. As specified acres increase relative to storage capacity the number of quotas needed decrease, and vice versa. The lower the ratio the greater is the demand for space at a delivery point.

There does not appear to be any correlation between size of community and the ratio. The ratio varies from a low of 1.9 at Greenan to a high of 16.9 at Witley. Storage capacity at Greenan since 1962-63 has remained unchanged at 25,000 bushels but specified acreage increased 34.1 per cent (Table 33) resulting in a decrease in the capacity-to-specified acres ratio from 2.5 to 1.9. Storage capacity at Witley also remained unchanged but a 20.9 per cent decrease in specified acreage (Table 33) pushed the ratio up to 16.9 from 13.4 during the same period.

The average number of quotas required to fill existing capacity in this study area is 6.7. The median number is 6.2. Hence, about one half the delivery points could accommodate a 6 bushel general quota, assuming zero inventory and no outward shipments, and about half could not. For example, Gunnworth would only be half full whereas Leach Siding would only be able to hold about half of a 6 bushel quota. To the extent the Canadian Wheat Board seeks to equalize quota levels among producers to that extent also will those points with a low capacity-to-specified acres ratio maintain a higher throughput ratio¹ than those points with a high capacity-to-specified acres ratio.

Table 35 also shows the approximate number of railway boxcars needed at each delivery point to transport a one bushel quota. The required number of boxcars depends directly on the number of specified acres and as such generally increases with the size of community. The range is from 3 at Ridpath to 66 at Rosetown. In all 1,064 boxcars are needed to move a one bushel quota out of the study area.

Given that the supply of boxcars at any point in time is limited, one might say that a point like Bratton has a disadvantage relative to say, Witley. Bratton requires 10 cars to move one quota and can only store 2.6 bushel quotas; whereas, Witley requires half as many boxcars, 5, but can store 16.9 bushel quotas.

¹The through-put ratio is the total bushel receipts of a delivery point in one year divided by the total bushel storage capacity. See Table 43.

TABLE 35. NUMBER OF QUOTAS PER SPECIFIED ACRE REQUIRED TO FILL ELEVATOR STORAGE CAPACITY, AND NUMBER OF BOXCARS REQUIRED TO MOVE A ONE BUSHEL QUOTA, BY DELIVERY POINT, 1969-70

Delivery Point	Elevator Bushel Capacity ^a	Specified Acres	Number of Quotas to Fill Capacity ^b	Number of Boxcars to move a One Bushel Quota ^c
<i>Too Small to Classify</i>				
Pym	28,000	Storage only		
Surbiton	39,000	Storage only		
Glen Payne	Closed	-		
Saltburn	Closed	-		
Lille	28,000	Storage only		
Chipperfield	61,000	Storage only		
Verendrye	50,000	Storage only		
Gaines	99,700	9,138	10.9	5
Mondou	108,000	12,086	8.9	7
Inglennook	45,000	10,234	4.4	6
Penkill	72,000	8,881	8.1	5
Sandgren	52,000	14,542	3.6	8
Witley	142,000	8,390	16.9	5
Fortune	165,700	14,289	11.6	8
Juniper	51,000	18,426	2.8	10
Tichfield	79,000	18,481	4.3	10
Anerley	94,300	33,872	2.8	17
Matador	103,000	23,308	4.4	12
Ridpath	68,000	5,253	12.9	3
Thrasher	167,000	20,146	8.3	11
Gunnworth	172,000	14,222	12.1	8
Totnes	164,000	20,001	8.2	10
Beadle	223,000	50,073	4.5	25
<i>Hamlets</i>				
Leach Siding	92,000	30,013	3.1	15
McMorran	144,000	23,138	6.2	12
Bratton	50,000	19,408	2.6	10
Glamis	265,100	19,468	13.6	10
Tuberoze	192,300	24,602	7.8	13
Bickleigh	100,000	16,374	6.1	9
Snipe Lake	368,000	54,736	6.7	28
Greenan	25,000	13,481	1.9	7
Isham	273,500	35,135	7.8	18
McGee	72,000	10,732	6.7	6
Sanctuary	262,000	48,747	5.4	25
Tyner	246,500	41,464	5.9	21
Richlea	474,000	51,302	9.2	26
Wartime	219,700	38,738	5.7	20

See footnotes at end of table

(continued)

TABLE 35. NUMBER OF QUOTAS PER SPECIFIED ACRE REQUIRED TO FILL ELEVATOR STORAGE CAPACITY, AND NUMBER OF BOXCARS REQUIRED TO MOVE A ONE BUSHEL QUOTA, BY DELIVERY POINT, 1969-70 (concluded)

Delivery Point	Elevator Bushel Capacity ^a	Specified Acres	Number of Quotas to Fill Capacity ^b	Number of Boxcars to move a One Bushel Quota ^c
Forgan	526,000	47,703	11.0	24
D'Arcy	137,100	39,680	3.5	20
<i>Villages</i>				
Bounty	186,000	27,146	6.9	14
Hughton	429,100	53,042	8.1	27
Glidden	428,700	55,993	7.7	28
Netherhill	285,000	47,257	6.0	24
Madison	576,500	50,077	11.5	25
Fiske	241,000	60,344	4.0	31
Macrorie	67,000	27,747	2.4	14
Plato	225,800	44,824	5.0	23
White Bear	294,000	63,227	4.7	32
Stewart Valley	203,000	56,931	3.6	29
Lacadena	220,000	49,308	4.5	25
Sovereign	353,900	39,198	9.0	20
Wiseton	362,600	61,529	5.9	31
Brock	330,100	62,153	5.3	32
<i>Towns</i>				
Milden	471,600	64,399	7.3	33
Dinsmore	583,900	100,717	5.8	51
Elrose	392,000	57,600	6.8	29
Kyle	344,800	61,303	5.6	31
<i>Greater Towns</i>				
Eston	641,100	89,768	7.1	45
Rosetown	1,196,900	131,770	9.1	66
Kindersley	981,000	126,789	7.7	64
Total Study Area	14,272,900	2,127,185	6.7	1,064

^aAs at August 1, 1969, Grain Elevators in Canada, 1969-70, Board of Grain Commissioners, Winnipeg.

^bRatio of bushel capacity to specified acres, assuming a zero inventory level.

^cAssume 2,000 bushels per boxcar.

Number of Boxcars per Shunt that Can be Loaded

The number of boxcars that an elevator operator can load in one group is limited by the length of the rail siding and the location of the elevator on the siding. Thus, while a siding may be able to accommodate twenty boxcars, perhaps only five or six cars can be loaded ready for collection by a train at one call. The number of car-lengths between the elevator spout and the neighbouring elevator company's spout or the ends of the siding is crucial.

Data for each delivery point and each elevator company are given in Table 36. Generally the number of boxcars per delivery point increases with the size of community, but considerable variation exists. The range is from 1 at Bratton to 69 at Rosetown.

Again using Bratton and Witley as examples, Bratton required 10 boxcars to move a one bushel quota (Table 35) but is able to load only 1 boxcar in one shunt. Witley needed 5 boxcars to move a one bushel quota and can load as many as 9 boxcars per shunt. Clearly, Witley has the advantage.

TABLE 36. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND ELEVATOR COMPANY, 1969-70

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
<i>Too Small to Classify</i>			
Gaines	10	C.P. Saskatchewan Wheat Pool	10
Mondou	12	C.P. Pioneer Grain Co. Ltd.	12
Inglenook	4	C.N. Saskatchewan Wheat Pool	4
Penkill	10	C.P. Saskatchewan Wheat Pool	10
Sandgren	8	C.N. Saskatchewan Wheat Pool	8
Witley	9	C.N. United Grain Growers Ltd.	9
Fortune	15	C.P. Saskatchewan Wheat Pool	15
Juniper	10	C.N. Saskatchewan Wheat Pool	10
Tichfield	10	C.N. Saskatchewan Wheat Pool	10
Anerley	22	C.N. Saskatchewan Wheat Pool	8
		C.N. United Grain Growers Ltd.	14
Matador	18	C.P. Saskatchewan Wheat Pool	18
Ridpath	14	C.N. Pioneer Grain Co. Ltd.	8
		C.N. Saskatchewan Wheat Pool	6
Thrasher	9	C.P. Pioneer Grain Co. Ltd.	4
		C.P. Saskatchewan Wheat Pool	5
Gunnworth	9	C.P. Pioneer Grain Co. Ltd.	4
		C.P. Saskatchewan Wheat Pool	5
Totnes	16	C.P. Pioneer Grain Co. Ltd.	4
		C.P. Saskatchewan Wheat Pool	12
Beadle	12	C.N. Federal Grain Ltd.	8
		C.N. Saskatchewan Wheat Pool	4
<i>Hamlets</i>			
Leach Siding	8	C.N. Saskatchewan Wheat Pool	4
		C.N. United Grain Growers Ltd.	4
McMorran	14	C.P. Saskatchewan Wheat Pool	7
		C.P. United Grain Growers Ltd.	7
Bratton	1	C.N. Saskatchewan Wheat Pool	1
Glamis	16	C.P. Federal Grain Ltd.	11
		C.P. Saskatchewan Wheat Pool	5
Tuberose	16	C.P. Saskatchewan Wheat Pool	16
Bickleigh	15	C.P. Saskatchewan Wheat Pool	7
		C.P. United Grain Growers Ltd.	8
Snipe Lake	24	C.N. Pioneer Grain Co. Ltd.	10
		C.N. Saskatchewan Wheat Pool	7
		C.N. United Grain Growers Ltd.	7
Greenan	8	C.N. Saskatchewan Wheat Pool	8
Isham	14	C.N. Federal Grain Ltd.	4
		C.N. Pioneer Grain Co. Ltd.	5
		C.N. Saskatchewan Wheat Pool	5

(continued)

TABLE 36. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY DELIVERY POINT AND ELEVATOR COMPANY, 1969-70 (continued)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
McGee	16	C.N. Saskatchewan Wheat Pool	16
Sanctuary	15	C.P. Pioneer Grain Co. Ltd.	5
		C.P. Saskatchewan Wheat Pool	10
Tyner	24	C.N. Federal Grain Ltd.	8
		C.N. Pioneer Grain Co. Ltd.	8
		C.N. Saskatchewan Wheat Pool	8
Richlea	18	C.N. Pioneer Grain Co. Ltd.	10
		C.N. Saskatchewan Wheat Pool	4
		C.N. United Grain Growers Ltd.	4
Wartime	29	C.N. Federal Grain Ltd.	7
		C.N./C.P. Saskatchewan Wheat Pool	22
Forgan	27	C.N. Pioneer Grain Co. Ltd.	18
		C.N. Saskatchewan Wheat Pool	4
		C.N. United Grain Growers Ltd.	5
D'Arcy	16	C.N. Federal Grain Ltd.	8
		C.N. Saskatchewan Wheat Pool	8
<i>Villages</i>			
Bounty	9	C.P. National Grain Co. Ltd.	5
		C.P. Saskatchewan Wheat Pool	4
Hughton	22	C.N. Federal Grain Ltd.	9
		C.N. Pioneer Grain Co. Ltd.	4
		C.N. Saskatchewan Wheat Pool	9
Glidden	16	C.N. Federal Grain Ltd.	8
		C.N. Pioneer Grain Co. Ltd.	4
		C.N. Saskatchewan Wheat Pool	4
Netherhill	16	C.N. National Grain Co. Ltd.	4
		C.N. Pioneer Grain Co. Ltd.	8
		C.N. Saskatchewan Wheat Pool	4
Madison	32	C.N. Pioneer Grain Co. Ltd.	12
		C.N. Saskatchewan Wheat Pool	9
		C.N. United Grain Growers Ltd.	11
Fiske	10	C.N. Pioneer Grain Co. Ltd.	5
		C.N. Saskatchewan Wheat Pool	5
Macrorie	8	C.N. Saskatchewan Wheat Pool	8
Plato	22	C.N. Federal Grain Ltd.	14
		C.N. Saskatchewan Wheat Pool	8
White Bear	20	C.N. Pioneer Grain Co. Ltd.	10
		C.N. Saskatchewan Wheat Pool	10
Stewart Valley	22	C.P. Pioneer Grain Co. Ltd.	4
		C.P. Saskatchewan Wheat Pool	4
		C.P. United Grain Growers Ltd.	14

(continued)

TABLE 36. MAXIMUM NUMBER OF BOXCARS PER SHUNT THAT CAN BE LOADED BY
DELIVERY POINT AND ELEVATOR COMPANY, 1969-70 (concluded)

Delivery Point	Number of Boxcars per Point	Elevator Companies	Number of Boxcars per Elevator Co.
Lacadena	21	C.N. Pioneer Grain Co. Ltd.	16
		C.N. Saskatchewan Wheat Pool	5
Sovereign	25	C.P. Federal Grain Ltd.	10
		C.P. Pioneer Grain Co. Ltd.	7
		C.P. Saskatchewan Wheat Pool	8
Wiseton	35	C.N. Federal Grain Ltd.	7
		C.N. Saskatchewan Wheat Pool	16
		C.N. United Grain Growers Ltd.	12
Brock	21	C.N. National Grain Co. Ltd.	5
		C.N. Saskatchewan Wheat Pool	10
		C.N. United Grain Growers Ltd.	6
<i>Towns</i>			
Milden	21	C.P. Federal Grain Ltd.	4
		C.P. Pioneer Grain Co. Ltd.	8
		C.P. Saskatchewan Wheat Pool	9
Dinsmore	27	C.N. Federal Grain Ltd.	4
		C.N. Pioneer Grain Co. Ltd.	10
		C.N. Saskatchewan Wheat Pool	10
		C.N. United Grain Growers Ltd.	3
Elrose	20	C.N. Federal Grain Ltd.	4
		C.N. Saskatchewan Wheat Pool	5
		C.N. United Grain Growers Ltd.	11
Kyle	23	C.P. Federal Grain Ltd.	5
		C.P. Pioneer Grain Co. Ltd.	7
		C.P. Saskatchewan Wheat Pool	9
<i>Greater Towns</i>			
Eston	17	C.N. Federal Grain Ltd.	4
		C.N. Pioneer Grain Co. Ltd.	7
		C.N. Saskatchewan Wheat Pool	3
		C.N. United Grain Growers Ltd.	3
Rosetown	69	C.N./C.P. Federal Grain Ltd.	13
		C.N./C.P. Pioneer Grain Co. Ltd.	28
		C.N./C.P. Saskatchewan Wheat Pool	24
		C.P. United Grain Growers Ltd.	4
Kindersley	31	C.N. Federal Grain Ltd.	9
		C.N. Pioneer Grain Co. Ltd.	9
		C.N. Saskatchewan Wheat Pool	13

Source: Canadian Grain Commission, Winnipeg.

Block Loading System for Grain

The beginning of the 1969-70 crop year was the start of a new system of issuing shipping orders and allocating boxcars, known as the Canadian Wheat Board Block Loading System. The "blocks" are comprised of the grain delivery points situated on specified groups of contiguous railway subdivisions, with those of one railway company being kept separate from the other.

Improved communication between the Board and the elevator operators allows the Board to know the quantities of each kind and grade of grain available for forwarding from each point, and thus from each block. The Board accordingly is able to issue shipping orders to the grain companies represented in each block, and the companies can then allocate boxcars to their elevators in the block to ship the correct kind and grade of grain the Wheat Board needs in forward positions.

Table 37 lists the delivery points in the study area, grouped in their respective loading blocks. Also shown are the names of the railway subdivisions and the number of cars that can be loaded at one time at each point.

TABLE 37. BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA

Shipping Block & Delivery Points	Railway Subdivision	Number of Boxcars Per Point
<i>Saskatoon South Block No. 19 (C.N.)</i>		
Anerley	Elrose	22
Bratton	Conquest	1
Dinsmore	Elrose	27
Elrose	Elrose	20
Eston	Elrose	17
Forgan	Elrose	27
Greenan	Elrose	8
Hughton	Elrose	22
Juniper	Elrose	10
Leach Siding	Elrose	8
Macrorie	Conquest	8
Plato	Elrose	22
Richlea	Elrose	18
Surbiton	Elrose	-
Tichfield	Conquest	10
Wartime	Elrose and Matador (C.P.)	29
Wiseton	Elrose	35
<i>Saskatoon West Block No. 21 (C.N.)</i>		
Beadle	Rosetown	12
Brock	Rosetown	21
D'Arcy	Rosetown	16
Fiske	Rosetown	10
Glidden	Elrose	16
Inglennook	Elrose	4
Isham	White Bear	14
Kindersley	Rosetown	31
Lacadena	White Bear	21
Madison	Elrose	32
McGee	Rosetown	16
Netherhill	Rosetown	16
Pym	Rosetown	-
Ridpath	Rosetown	14
Rosetown	Rosetown	69
Saltburn	White Bear	-
Sandgren	Elrose	8
Snipe Lake	Elrose	24
Tyner	White Bear	24
Verendrye	Elrose	-
White Bear	White Bear	20
Witley	White Bear	9

(continued)

TABLE 37. BLOCK LOADING SYSTEM FOR GRAIN IN THE STUDY AREA (concluded)

Shipping Block & Delivery Points	Railway Subdivision	Number of Boxcars Per Point
<i>Outlook Block No. 79 (C.P.)</i>		
Bickleigh	McMorran	15
Bounty	Kerrobert	9
Chipperfield	McMorran	-
Fortune	Kerrobert	15
Gaines	McMorran	10
Glamis	McMorran	16
Gunnworth	McMorran	9
Kyle	Matador	23
Lille	Matador	-
Matador	Matador	18
McMorran	McMorran	14
Milden	Kerrobert	21
Mondou	Matador	12
Penkill	McMorran	10
Rosetown	Kerrobert	69
Sanctuary	Matador	15
Sovereign	Kerrobert	25
Thrasher	McMorran	9
Totnes	McMorran	16
Tuberoze	Matador	16
Wartime	Matador and Elrose (C.N.)	29
<i>Swift Current Block No. 78 (C.P.)</i>		
Stewart Valley	Stewart Valley	22

Source: Canadian Grain Commission, Winnipeg.

Farm Trucks

Table 38 presents estimates of the number and size distribution of farm trucks registered in the Eston-Elrose region in 1966-67. Truck sizes are expressed in terms of gross vehicle weight (GVW) rather than in terms of ton capacities because the latter designations are too ambiguous. Ton capacities corresponding to the GVW groups shown would range from one-half ton in the 0-5,999 pound group to 3 and 4 tons in the upper end of the scale.

The average number of trucks per census farm in 1966 in census divisions 7, 12 and 13 was applied to the total number of permit holders in the study area during 1966-67 (Table 27). The number of trucks per farm in the census divisions was 1.45 and there were 3,040 permit holders, resulting in an estimated 4,408 farm trucks in the study area. Percentage estimates of distribution by size, obtained from the Canadian Transport Commission, were then applied to the total number of trucks to arrive at the number of trucks within each GVW group.

Over one quarter of the trucks were within the smallest size group (i.e. one-half ton trucks) and about 12 per cent in the next largest group or "small" one ton trucks. The second largest number of trucks belonged to the 10,000 - 11,999 GVW group, corresponding to larger one ton and two ton truck sizes.

TABLE 38. ESTIMATED NUMBER OF FARM TRUCKS BY SIZE IN THE STUDY AREA, 1966-67

Size of Truck (Gross Vehicle Weight)	Estimated Number of Trucks	Per Cent
0 - 5,999	1,252	28.4
6,000 - 7,999	533	12.1
8,000 - 9,999	26	0.6
10,000 - 11,999	573	13.0
12,000 - 13,999	216	4.9
14,000 - 15,999	251	5.7
16,000 - 17,999	106	2.4
18,000 - 19,999	243	5.5
20,000 - 23,999	458	10.4
24,000 - 27,999	419	9.5
28,000 and over	331	7.5
Study Area Total	4,408	100.0

Source: Calculated from data obtained from the Agriculture Census of Canada, 1966 and the Canadian Transport Commission, Ottawa.

Farm to Elevator Hauling Distances: Prediversion

Tributary areas from which grain delivery points draw grain from producers were plotted for the crop years 1962-63 and 1969-70 as shown in Figures 4 and 5. Each quarter section, as recorded in individual Canadian Wheat Board permit books, was plotted producing a graphic portrayal of the relative sizes and shapes of hinterlands. Naturally, unimproved farm land is included by this method of plotting. Excluded are crown land, waste land, bodies of water and farm land tributary to delivery points outside the study area.

Table 39 is a comparison of farm to elevator grain hauling distances between the two crop years. In one sense, average hauling distance is also a measure of geographic size of a hinterland, since hauling distances generally increase as more acres are added to a hinterland. The data were derived from 1962-63 and 1969-70 hinterland maps (Figures 4 and 5) by measuring the grid distance between the delivery point and the midpoint of each section block. The delivery point was always taken as being located at one corner of a section resulting in a minimum distance of 1.0 mile and all subsequent distances as 1.0 plus 1, 2 or 3 miles, etc., to the outer extreme of the hinterland.

The average distance each quarter section is located from its delivery point was calculated as follows: the distance of each section, as derived above, was weighted or multiplied by the relevant¹ number of quarter sections within that section, the products of which were accumulated; and the sum then divided through by the total number of quarter sections in the hinterland. So one might say the resulting average is the average distance each section is from the delivery point weighted by the number of relevant quarter sections.

As an estimate of farm to elevator hauling distances this method may be criticized for not taking into account actual locations of on-farm, grain storage facilities nor the availability of roads. These criticisms may not be too serious, however, since grain is first hauled from the farm field to the farm granary and then to the country elevator at a later date. In effect, therefore, the hauling activity originates from each quarter section. It is difficult to know the magnitude of the error introduced by ignoring roads. The seriousness of the error will be greater for a hinterland with fewer roads than for a hinterland with a well developed network of roads. To the extent that there is a bias introduced by ignoring roads the method used, conceivably, under-estimates hauling distances.

The average hauling distance in the study area in 1969-70 was 6.53 miles, slightly higher than the 1962-63 average of 6.16 miles. The maximum distance increased 1.0 mile from 27.0 (Dinsmore) to 28.0 miles (Rosetown).

¹A "relevant" quarter section is one which was recorded in someone's delivery permit book and which was contained in the hinterland of the delivery point in question.

The minimum high was only 4.0 miles at Lille in 1962-63 and 7.0 miles at Gaines, Penkill and Witley in 1969-70.

The largest hinterland in terms of average hauling distance in both crop years was Dinsmore which had an average distance of over 10 miles. Surbiton in 1962-63 and Witley in 1969-70 had the smallest hinterland, each with an average distance of 2.75 miles.

Changes in average hauling distances between the two crop years were small. Only 7 delivery points in the entire study area showed distance changes of more than one mile. The largest decline in hauling distance occurred at Forgan (-1.84 miles) and the largest increase occurred at Kindersley (1.79 miles). Again, a greater proportion of smaller centers experienced decreased hauling distances than larger centers.

TABLE 39. FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, 1962-63 AND 1969-70

Delivery Point	1962-63		1969-70		Change in Average 1962-63 to 1969-70
	High ^a	Average	High ^a	Average	
- miles -					
Too Small to Classify					
Surbiton	7.0	2.75	Storage only		-
Glen Payne	7.0	3.30	Closed		-
Saltburn	9.0	3.77	Closed		-
Lille	4.0	2.59	Storage only		-
Chipperfield	10.0	3.77	Storage only		-
Verendrye	8.0	3.30	Storage only		-
Gaines	6.0	2.83	7.0	2.96	+0.13
Mondou	7.0	3.63	8.0	3.87	+0.24
Inglenook	10.0	3.57	11.0	3.64	+0.07
Penkill	6.0	2.93	7.0	2.80	-0.13
Sandgren	9.0	4.12	11.0	3.99	-0.13
Witley	15.0	4.28	7.0	2.75	-1.53
Fortune	8.0	3.74	9.0	3.43	-0.31
Juniper	16.0	7.36	14.0	6.54	-0.82
Tichfield	11.0	4.49	10.0	4.56	+0.07
Anerley	14.0	5.27	12.0	5.11	-0.16
Matador	13.0	5.97	13.0	5.52	-0.45
Ridpath	13.0	4.49	8.0	3.58	-0.91
Thrasher	12.0	3.93	10.0	4.68	+0.75
Gunnworth	8.0	3.52	8.0	3.31	-0.21
Totnes	8.0	3.35	8.0	3.65	+0.30
Beadle	14.0	5.28	12.0	6.02	+0.74
Hamlets					
Leach Siding	13.0	4.40	18.0	4.97	+0.57
McMorran	12.0	4.99	11.0	4.11	-0.88

See footnotes at end of table

(continued)

TABLE 39. FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, 1962-63
AND 1969-70 (concluded)

Delivery Point	1962-63		1969-70		Change in Average
	High ^a	Average	High ^a	Average	1962-63 to 1969-70
- miles -					
Bratton	9.0	3.17	10.0	3.67	+0.50
Glamis	9.0	4.27	8.0	3.68	-0.59
Tuberosa	10.0	3.86	10.0	4.02	+0.16
Bickleigh	10.0	3.44	8.0	3.69	+0.25
Snipe Lake	16.0	6.43	17.0	7.05	+0.62
Greenan	9.0	3.60	9.0	3.96	+0.36
Isham	18.0	5.82	17.0	4.67	-1.15
McGee	11.0	4.80	11.0	4.26	-0.54
Sanctuary	13.0	5.61	14.0	5.99	+0.38
Tyner	10.0	4.23	11.0	4.78	+0.55
Richlea	12.0	5.19	13.0	5.49	+0.30
Wartime	9.0	4.19	12.0	4.59	+0.40
Forgan	19.0	8.83	21.0	6.99	-1.84
D'Arcy	14.0	5.93	15.0	6.09	+0.16
<i>Villages</i>					
Bounty	13.0	5.36	12.0	4.64	-0.72
Hughton	18.0	6.13	13.0	6.57	+0.44
Glidden	18.0	7.59	20.0	8.33	+0.74
Netherhill	11.0	5.47	13.0	5.44	-0.03
Madison	16.0	5.81	12.0	5.59	-0.22
Fiske	12.0	5.44	17.0	6.11	+0.67
Macrorie	13.0	4.41	15.0	4.59	+0.18
Plato	17.0	5.02	17.0	5.77	+0.75
White Bear	17.0	7.80	18.0	7.46	-0.34
Stewart Valley	17.0	6.89	16.0	5.19	-1.70
Lacadena	15.0	5.91	16.0	6.05	+0.14
Sovereign	10.0	4.45	13.0	4.85	+0.40
Wiseton	18.0	7.53	19.0	7.94	+0.41
Brock	18.0	7.30	18.0	7.48	+0.18
<i>Towns</i>					
Milden	17.0	6.56	14.0	5.92	-0.64
Dinsmore	27.0	10.54	24.0	11.65	+1.11
Elrose	18.0	5.70	17.0	6.51	+0.81
Kyle	17.0	7.29	17.0	7.31	+0.02
<i>Greater Towns</i>					
Eston	21.0	7.34	18.0	7.38	+0.04
Rosetown	25.0	8.62	28.0	9.63	+1.01
Kindersley	17.0	7.12	24.0	8.91	+1.79
Total Study Area	27.0	6.16	28.0	6.53	+0.37

^aThe minimum distance in all cases was assumed to be 1.0 mile; thus, the range in distances for each hinterland is the high minus 1.0 mile.

PART IV

RATIONALIZATION OF GRAIN DELIVERY POINTS

The preceding parts have dealt with community attributes, agricultural characteristics, and grain marketing and handling characteristics in the study area. This last part attempts to show what changes might be expected if some of the delivery points closed. "Rationalizing" delivery points in this manner is a hypothetical exercise and as such cannot be construed as a set of recommendations nor as a set of definitive adjustments that will in actual fact occur. Justification for the exercise may be found in the fact that, firstly, the probable directions of change are outlined and, secondly, estimates are made of the magnitudes of supposed changes.

For purposes of this study the delivery points on the following branch lines were assumed to be closed: (see Figures 5 and 6) Kindersley to Glidden; Eston to White Bear; McMorran to Milden; and Gunnworth to Matador. Twenty-three points were thus assumed closed, including Lille, Chipperfield and Verendrye which were already being used for storage only in 1969-70. An additional four points on other rail lines were also closed or closed for storage leaving 33 delivery points open. Of the latter, 17 points were affected by additional grain receipts after rationalization and 16 were unaffected.

Figure 6 was derived from 1969-70 hinterlands by a process of diverting each quarter section from those points assumed closed to probable alternate delivery points assumed to be remaining open. While an element of subjective judgement was involved the following criteria served as guides for selecting the most probable alternate delivery point for each quarter section: (1) shortest hauling distance; (2) road conditions; and (3) size of community and number of services present at each alternate delivery point. These criteria are listed in descending order of importance, although, in some instances the second took precedence over the first. The third criterion was given only minor importance.

Probable Diversions to Alternate Delivery Points from Delivery Points Assumed Closed

Tables 40 and 41 show the probable diversions that would occur in terms of acres, bushels and hauling distances after specified points were assumed closed. To begin with, in Table 40 percentage distribution figures were determined on the basis of number of quarter sections diverted to each alternate delivery point. For example, all of Mondou was diverted to Elrose, therefore, Elrose obtained 100 per cent of Mondou's farm acreage. A further example, of the total number of quarters in Inglenook hinterland, 14.3 per cent were diverted to Glidden and 85.7 per cent to Kindersley. Total farm acreage at Inglenook in 1969-70 was 11,290 (Table 19), thus,

1,614 acres went to Glidden and 9,676 acres to Kindersley. In total for the study area, 611,921 acres were diverted representing 24.8 per cent of the nearly 2.5 million-acre total.

The quarter section percentage distribution was also the basis on which bushel diversion estimates were made. Again using Inglenook to illustrate, in 1969-70 it had grain receipts of 96,353 bushels, 14.3 per cent of which were assumed to go to Glidden and 85.7 per cent to Kindersley. Since annual receipts fluctuate considerably and since 1969-70 may not have been a representative year, bushel diversions based on the ten-year average, 1960-61 to 1969-70 were similarly calculated. Had the 20 points specified in Table 40 been closed in 1969-70, an estimated total of 4.8 million bushels would have been diverted to alternate delivery points compared to a ten-year average of 5.3 million bushels.

The average additional haul shown by the last column in Table 40 was derived as follows: the average distance each quarter section in the hinterland being diverted was situated from its alternate delivery point, was calculated employing the same method used for Table 39; from this value, the prediversion average hauling distance of the point being closed was subtracted, resulting in the postdiversion additional hauling distance. This means that whereas producers previously travelled an average of 3.64 miles to Inglenook (Table 39), after Inglenook closed they would have to travel, on the average, an additional 5.37 miles to Glidden or Kindersley or 9.01 miles in total.

Additional hauling distances ranged from 2.71 miles for farmers at Sandgren to 18.58 miles for farmers at Tuberose.

Acreage and bushel diversions shown in Table 41 were derived from Table 40. Table 41 simply lists the 17 affected points remaining open and the amounts of acreage and grain receipts each received from those points closing. Unlike Table 40, the percentage distribution values in Table 41 were computed from the acreage diversion data, not vice versa.

Average additional haul represents the increased average hauling distance of all producers after diversion as a result of the new, larger hinterlands illustrated in Figure 6. This information was simply reproduced from Table 42.

TABLE 40. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHELS AND HAULING DISTANCE, BASIS 1969-70

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
<i>Too Small to Classify</i>						
Gaines to:						
Sovereign	36.8	4,312		34,073	45,961	
Milden	10.6	1,241		9,815	13,239	
Wiseton	52.6	6,163		48,703	65,695	
Total	100.0	11,716		92,591	124,895	4.01
Mondou to:						
Elrose	100.0	13,491		108,365	109,327	
Total	100.0	13,491		108,365	109,327	7.23
Inglenook to:						
Glidden	14.3	1,614		13,778	18,307	
Kindersley	85.7	9,676		82,575	109,708	
Total	100.0	11,290		96,353	128,015	5.37
Penkill to:						
D'Arcy	10.3	982		2,658	14,888	
Brock	15.2	1,449		3,923	21,969	
Richlea	74.5	7,103		19,225	107,679	
Total	100.0	9,534		25,806	144,536	7.08
Sandgren to:						
Kindersley	28.0	4,225		33,979	39,212	
Glidden	72.0	10,863		87,374	100,830	
Total	100.0	15,088		121,353	140,042	2.71
Witley to:						
Richlea	28.1	2,606		24,471	40,243	
Eston	71.9	6,668		62,613	102,968	
Total	100.0	9,274		87,084	143,211	3.21
(continued)						

(continued)

TABLE 40. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average	
					1960-61 to 1969-70	
- bushels -						
Matador to:						
Stewart Valley	100.0	26,676		212,809	230,669	9.89
Total	100.0	26,676		212,809	230,669	
Thrasher to:						
Elrose	24.7	5,774		43,608	55,759	18.30
Rosetown	75.3	17,602		132,941	169,987	
Total	100.0	23,376		176,549	225,746	
Gunnworth to:						
Elrose	28.5	4,706		35,391	38,733	7.24
Wartime	71.5	11,808		88,785	97,169	
Total	100.0	16,514		124,176	135,902	
Totnes to:						
Brock	1.6	364		2,778	3,288	5.58
Plato	18.3	4,166		31,774	37,115	
Richlea	30.1	6,853		52,261	61,113	
D'Arcy	50.0	11,384		86,813	101,517	
Total	100.0	22,767		173,626	203,033	
Hamlets						
McMorran to:						
Richlea	5.1	1,318		12,123	15,788	6.31
Netherhill	11.7	3,023		27,812	36,758	
Brock	34.5	8,915		82,010	108,388	
Eston	48.7	12,585		115,764	153,234	
Total	100.0	25,841		237,709	314,168	

(continued)

TABLE 40. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL S AND HAULING DISTANCE,
BASIS 1969-70 (continued)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul - miles -
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Glamis to:						
Rosetown	5.2	1,256		11,858	17,967	
Wiseton	9.4	2,272		21,436	32,480	
Sovereign	15.9	3,843		36,258	54,940	
Forgan	69.5	16,796		158,487	240,145	
Total	100.0	24,167		228,039	345,532	5.00
Tuberosse to:						
Elrose	100.0	27,901		201,584	215,296	
Total	100.0	27,901		201,584	215,296	18.58
Bickleigh to:						
Fiske	15.5	2,914		20,743	31,854	
Plato	84.5	15,889		113,080	173,654	
Total	100.0	18,803		133,823	205,508	6.16
Isham to:						
Plato	6.9	2,929		28,451	25,489	
Eston	27.4	11,627		112,980	101,219	
Richlea	65.7	27,880		270,905	242,703	
Total	100.0	42,436		412,336	369,411	6.71
Sanctuary to:						
Elrose	100.0	55,342		451,284	373,451	
Total	100.0	55,342		451,284	373,451	11.06
Tyner to:						
Elrose	2.8	1,300		11,345	9,748	
Richlea	8.0	3,716		32,413	27,851	
Plato	89.2	41,432		361,406	310,536	
Total	100.0	46,448		405,164	348,135	7.68

(continued)

TABLE 40. PROBABLE DIVERSIONS TO ALTERNATE DELIVERY POINTS: ACREAGE, BUSHEL'S AND HAULING DISTANCE, BASIS 1969-70 (concluded)

Delivery Point Closed to Alternate Delivery Point	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
<i>Villages</i>						
White Bear to:						- miles -
Elrose	21.3	16,107		125,721	127,941	
Plato	36.8	27,829		217,208	221,045	
Stewart Valley	41.9	31,685		247,311	251,679	
Total	100.0	75,621		590,240	600,665	20.47
Lacadena to:						
Elrose	13.8	8,258		52,289	53,349	
Plato	86.2	51,586		326,619	333,236	
Total	100.0	59,844		378,908	386,585	14.19
<i>Towns</i>						
Kyle to:						
Elrose	20.0	23,158		113,660	127,432	
Stewart Valley	80.0	52,634		454,640	509,725	
Total	100.0	75,792		568,300	637,157	15.93
Study Area Total		611,921		4,826,099	5,326,171	

- bushels -

- acres -

- miles -

TABLE 41. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHELS AND HAULING DISTANCE,
BASIS 1969-70

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
<i>Hamlets</i>						
Richlea from:						
Tyner	7.5	3,716		32,413	27,851	
Isham	56.4	27,880		270,905	242,703	
Witley	5.3	2,606		24,471	40,243	
McMorran	3.5	1,318		12,123	15,788	
Penkill	14.4	7,103		19,225	107,679	
Totnes	13.9	6,853		52,261	61,113	
Total	100.0	49,476		411,398	495,377	7.16
Wartime from:						
Gunnworth	100.0	11,808		88,785	97,169	
Total	100.0	11,808		88,785	97,169	0.90
Forgar from:						
Glamis	100.0	16,796		158,487	240,145	
Total	100.0	16,796		158,487	240,145	0.32
D'Arcy from:						
Penkill	7.9	982		2,658	14,888	
Totnes	92.1	11,384		86,813	101,517	
Total	100.0	12,366		89,471	116,405	0.51
<i>Villages</i>						
Glidden from:						
Inglenook	12.9	1,614		13,778	18,307	
Sandgren	87.1	10,863		87,374	100,830	
Total	100.0	12,477		101,152	119,137	-0.70
Netherhill from:						
McMorran	100.0	3,023		27,812	36,758	
Total	100.0	3,023		27,812	36,758	0.24
(continued)						

(continued)

TABLE 41. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHEL AND HAULING DISTANCE, BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average 1960-61 to 1969-70	
Fiske from:						
Bickleigh	100.0	2,914		20,743	31,854	0.18
Total	100.0	2,914		20,743	31,854	
Plato from:						
Lacadena	35.9	51,586		326,619	333,236	8.44
White Bear	19.3	27,829		217,208	221,045	
Tyner	28.8	41,432		361,406	310,536	
Isham	2.1	2,929		28,451	25,489	
Totnes	2.9	4,166		31,774	37,115	
Bickleigh	11.0	15,889		113,080	173,654	
Total	100.0	143,831		1,078,538	1,101,075	
Stewart Valley from:						
Kyle	47.4	52,634		454,640	509,725	10.85
White Bear	28.5	31,685		247,311	251,679	
Matador	24.1	26,676		212,809	230,669	
Total	100.0	110,995		914,760	992,073	
Sovereign from:						
Glamis	47.1	3,843		36,258	54,940	0.46
Gaines	52.9	4,312		34,073	45,961	
Total	100.0	8,155		70,331	100,901	
Wiseton from:						
Glamis	26.9	2,272		21,436	32,480	-0.03
Gaines	73.1	6,163		48,703	65,695	
Total	100.0	8,435		70,139	98,175	

(continued)

TABLE 41. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHEL'S AND HAULING DISTANCE,
BASIS 1969-70 (continued)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	- acres -	1969-70	Ten-Year Average	
					1960-61 to 1969-70	
- bushels -						
- miles -						
Towns						
Brock from:						
McMorran	83.1	8,915		82,010	108,388	
Penkill	13.5	1,449		3,923	21,969	
Totnes	3.4	364		2,778	3,288	
Total	100.0	10,728		88,711	133,645	0.15
Towns						
Milden from:						
Gaines	100.0	1,241		9,815	13,239	
Total	100.0	1,241		9,815	13,239	0.03
Towns						
Elrose from:						
Mondou	8.6	13,491		108,365	109,327	
Kyle	14.8	23,158		113,660	127,432	
Sanctuary	35.5	55,342		451,284	373,451	
Lacadena	5.2	8,258		52,289	53,349	
Tuberose	17.9	27,901		201,584	215,296	
White Bear	10.3	16,107		125,721	127,941	
Tyner	0.8	1,300		11,345	9,748	
Thrasher	3.9	5,774		43,608	55,759	
Gunnworth	3.0	4,706		35,391	38,733	
Total	100.0	156,037		1,143,247	1,117,036	8.38
Greater Towns						
Eston from:						
Isham	37.7	11,627		112,980	101,219	
Witley	21.5	6,668		62,613	102,968	
McMorran	40.8	12,585		115,764	153,234	
Total	100.0	30,880		291,357	357,421	0.92

(continued)

TABLE 41. PROBABLE DIVERSIONS FROM DELIVERY POINTS ASSUMED CLOSED: ACREAGE, BUSHELS AND HAULING DISTANCE,
BASIS 1969-70 (concluded)

Alternate Delivery Point from Points Closed	Per Cent Distribution	Acres Diverted		Bushels Diverted		Average Additional Haul
		1969-70	1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70	
		- acres -	- bushels -			- miles -
Rosetown from:						
Glamis	6.7	1,256	11,858	17,967		
Thrasher	93.3	17,602	132,941	169,987		
Total	100.0	18,858	144,799	187,954		1.94
Kindersley from:						
Inglennook	69.6	9,676	82,575	109,708		
Sandgren	30.4	4,225	33,979	39,212		
Total	100.0	13,901	116,554	148,920		0.11
Study Area Total		611,921	4,826,099	5,326,171		2.86

Farm to Elevator Hauling Distances: Postdiversion

Comparisons of hauling distances before and after diversion are presented in Table 42. For the study area as a whole, average farm to elevator hauling distances increased by 2.86 miles, from 6.53 to 9.39 miles. Prior to diversion, the smallest hinterland in terms of average hauling distance was Witley (2.75) and the largest Dinsmore (11.65). Of those delivery points open after diversion, the smallest hinterland was Fortune (3.43), which did not gain any acreage, and the largest Stewart Valley (16.04).

The majority of average distance changes after diversion were small (i.e. less than one mile) but the following four points showed increases of approximately 7 to 10 miles: Richlea, Plato, Stewart Valley and Elrose.¹ Again, Stewart Valley increased more than any other point, with an additional 10.85 miles of haul. It should be noted that all acreage gained by Stewart Valley was diverted from Kyle, White Bear and Matador north of the South Saskatchewan River, based on the assumption that grain producers would travel via Highway No. 4. The farthest hauling distance was estimated to be 34.0 miles.

¹The fact that average hauling distances at Glidden and Wiseton actually decreased slightly after diversion can be explained by the location of the acreages added in relation to the shape of each of the hinterlands. Much of the Glidden hinterland, for instance, extends quite far south (Figure 5) and the acreage added was located at the north end, closer to the village of Glidden (Figure 6). Since average hauling distance is an average weighted by the number of quarter sections (see discussion of Table 39), adding more quarter sections close to the delivery point results in pulling the average downward.

TABLE 42. FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, BEFORE AND AFTER DIVERSION,
BASIS 1969-70

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Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
	- miles -				
Too Small to Classify					
Gaines ^a	7.0	2.96	-	-	-
Mondou ^a	8.0	3.87	-	-	-
Inglenook ^a	11.0	3.64	-	-	-
Penkilla ^a	7.0	2.80	-	-	-
Sandgren ^a	11.0	3.99	-	-	-
Witley ^a	7.0	2.75	-	-	-
Fortune	9.0	3.43	9.0	3.43	n/c
Juniper	14.0	6.54	14.0	6.54	n/c
Tichfield	10.0	4.56	10.0	4.56	n/c
Anerley	12.0	5.11	12.0	5.11	n/c
Matador ^a	13.0	5.52	-	-	-
Ridpath	8.0	3.58	8.0	3.58	n/c
Thrasher ^a	10.0	4.68	-	-	-
Gunnworth ^a	8.0	3.31	-	-	-
Totnes ^a	8.0	3.65	-	-	-
Beadle	12.0	6.02	12.0	6.02	n/c
Hamlets					
Leach Siding	18.0	4.97	18.0	4.97	n/c
McMorran ^a	11.0	4.11	-	-	-
Bratton	10.0	3.67	10.0	3.67	n/c
Glamis ^a	8.0	3.68	-	-	-
Tuberose ^a	10.0	4.02	-	-	-
Bickleigh ^a	8.0	3.69	-	-	-
Snipe Lake	17.0	7.05	17.0	7.05	n/c
Greenan	9.0	3.96	9.0	3.96	n/c

- miles -

(continued)

See footnotes at end of table

TABLE 42. FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, BEFORE AND AFTER DIVERSION,
BASIS 1969-70 (continued)

Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
			- miles -		
IsHAM ^a	17.0	4.67	-	-	-
McGee	11.0	4.26	11.0	4.26	n/c
Sanctuary ^a	14.0	5.99	-	-	-
Tyner ^a	11.0	4.78	-	-	-
Richlea	13.0	5.49	27.0	12.65	+7.16
Wartime	12.0	4.59	15.0	5.49	+0.90
Forgan	21.0	6.99	21.0	7.31	+0.32
D'Arcy	15.0	6.09	15.0	6.60	+0.51
Villages					
Bounty	12.0	4.64	12.0	4.64	n/c
Hughton	13.0	6.57	13.0	6.57	n/c
Glidden	20.0	8.33	20.0	7.63	-0.70
Netherhill	13.0	5.44	13.0	5.68	+0.24
Madison	12.0	5.59	12.0	5.59	n/c
Fiske	17.0	6.11	17.0	6.29	+0.18
Macrorie	15.0	4.59	15.0	4.59	n/c
Plato	17.0	5.77	31.0	14.21	+8.44
White Bear ^a	18.0	7.46	-	-	-
Stewart Valley	16.0	5.19	34.0	16.04	+10.85
Lacadena ^a	16.0	6.05	-	-	-
Sovereign	13.0	4.85	13.0	5.31	+0.46
Wiseton	19.0	7.94	19.0	7.91	-0.03
Brock	18.0	7.48	18.0	7.63	+0.15
Towns					
Milden	14.0	5.92	14.0	5.95	+0.03
Dinsmore	24.0	11.65	24.0	11.65	n/c

See footnotes at end of table (continued)

TABLE 42. FARM TO ELEVATOR HAULING DISTANCES BY DELIVERY POINT, BEFORE AND AFTER DIVERSION,
BASIS 1969-70 (concluded)

Delivery Point	Before Diversion 1969-70		After Diversion 1969-70		Difference in Average Before and After Diversion
	High	Average	High	Average	
Elrose Kyle ^a	17.0	6.51	32.0	14.89	+8.38
	17.0	7.31	-	-	-
Greater Towns Eston Rosetown Kindersley	18.0	7.38	18.0	8.30	+0.92
	28.0	9.63	28.0	11.57	+1.94
	24.0	8.91	24.0	9.02	+0.11
Total Study Area	28.0	6.53	34.0	9.39	+2.86

n/c - No change in hauling distances for delivery points open and unaffected by diversions.

^adelivery points assumed closed after diversion.

Through-Put Ratios

The through-put ratio (Table 43) is the total number of bushels received by a delivery point in one year divided by its total bushel storage capacity. This ratio represents one measure of efficiency of the grain elevator. The ten-year average is based on average annual receipts over the past ten years divided by the 1969-70 rated storage capacity. Based on ten-year average receipts, 42 delivery points had actual through-put ratios under 2.0 and only three had ratios of 3.0 or more. Excluding the seven points not operating in 1969-70, the lowest ten-year average ratio was 0.8 at Gunnworth and Forgan and the highest was 3.5 at Greenan. Through-put ratios in 1962-63 were, in general, slightly higher than in 1969-70, largely because of delivery fluctuations between the two years.

Contrary to what one might expect, through-put ratios at larger centers were not generally higher than at smaller centers. If anything, the reverse was true. Note that Rosetown had a through-put ratio of only 0.9, basis ten-year average receipts. Kindersley had a ratio of 1.1.

Upon rationalizing the grain delivery point system in the study area by assuming 23 points closed, total storage capacity was reduced by some 3.6 million bushels or about 25 per cent. Assuming further that no new storage space is constructed, through-put ratios after diversion were calculated and also presented in Table 43. On the average, the through-put ratio in the entire study area only increased from 1.4 to 1.9, which is not very significant. Of the 17 delivery points affected by additional grain receipts after diversion, 11 still showed through-put ratios less than 2.0. Three points experienced substantial increases, namely, Stewart Valley, Plato and Elrose. The ratios about tripled at each of these points on the basis of both 1969-70 and ten-year average.

It has been suggested that for an elevator to pay for itself, it must maintain a ratio of between 3.0 and 4.0.¹ One might speculate that an economically optimum through-put ratio is in the neighborhood of 10.0.² On that basis, given the present plant and labor resources, then even after diversion none of the country elevators in the study area would experience any difficulty in handling the additional through-put. No doubt total variable costs would increase; but total costs per bushel handled would decrease.

¹D. Zasada, "The Probable Effects of the Application for Railway Branch Line Abandonment on the Grain Elevator Industry", Canadian Farm Economics, April, 1968, page 21.

²Speculative reasoning might suggest the following example. Suppose a one-elevator delivery point has a storage capacity of 25,000 bushels. A through-put ratio of 10.0 would require the handling of 250,000 bushels per year. At 2,000 bushels per boxcar the elevator agent would only have to load 125 cars per year or about 2.5 boxcars per week for 50 weeks.

All of the postdiversion ratios are less than 10.0 including the ratio at Stewart Valley. As already noted, before diversion there were only three delivery points that had a ten-year average through-put ratio of 3.0 or greater. After closing 23 of the 58 points the number of delivery points in this category only increased to four. If the optimum through-put ratio is, in fact, substantially higher than 3.0, say 10.0, then there is ample evidence that the country elevator system in the study region is overbuilt for the quantity of grain handled.

TABLE 43. THROUGH-PUT RATIOS BY DELIVERY POINT, 1962-63 AND BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE

Delivery Point	1962-63	Before Diversion		After Diversion	
		1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
<i>Too Small to Classify</i>					
Pym	-	-	0.4	-	-
Surbiton	1.9	-	0.8	-	-
Glen Payne	0.3	-	-	-	-
Saltburn	2.5	-	-	-	-
Lille ^a	1.1	-	0.8	-	-
Chipperfield ^a	1.6	-	1.2	-	-
Verendrye ^a	2.6	-	1.9	-	-
Gaines ^a	1.2	0.9	1.3	-	-
Mondou ^a	0.9	1.0	1.0	-	-
Inglenook ^a	3.3	2.1	2.8	-	-
Penkill ^a	2.4	0.4	2.0	-	-
Sandgren ^a	3.2	2.3	2.7	-	-
Witley ^a	1.3	0.6	1.0	-	-
Fortune	1.4	0.8	1.2	n/c	n/c
Juniper	3.2	2.3	2.9	n/c	n/c
Tichfield	1.9	1.6	2.0	n/c	n/c
Anerley	2.8	3.0	3.0	n/c	n/c
Matador ^a	2.4	2.1	2.2	-	-
Ridpath	1.5	0.6	1.3	n/c	n/c
Thrasher ^a	1.2	1.1	1.4	-	-
Gunnworth ^a	0.7	0.7	0.8	-	-
Totnes ^a	1.2	1.1	1.2	-	-
Beadle	1.9	2.6	1.9	n/c	n/c
<i>Hamlets</i>					
Leach Siding	2.3	2.6	2.6	n/c	n/c
McMorran ^a	2.1	1.7	2.2	-	-
Bratton	2.6	3.0	2.9	n/c	n/c
Glamis ^a	1.3	0.9	1.3	-	-
Tuberose ^a	1.0	1.0	1.1	-	-
Bickleigh ^a	2.0	1.3	2.1	-	-
Snipe Lake	1.7	1.7	1.6	n/c	n/c
Greenan	3.6	4.1	3.5	n/c	n/c
Isham ^a	1.4	1.5	1.4	-	-
McGee	1.4	1.1	1.6	n/c	n/c
Sanctuary ^a	1.1	1.7	1.4	-	-
Tyner ^a	1.3	1.6	1.4	-	-
Richlea	1.3	1.6	1.3	2.5	2.3

See footnotes at end of table

(continued)

TABLE 43. THROUGH-PUT RATIOS BY DELIVERY POINT, 1962-63 AND BEFORE AND AFTER DIVERSION, BASIS 1969-70 AND PREVIOUS TEN-YEAR AVERAGE
(concluded)

Delivery Point	1962-63	Before Diversion		After Diversion	
		1969-70	Ten-Year Average 1960-61 to 1969-70	1969-70	Ten-Year Average 1960-61 to 1969-70
Wartime	1.3	1.9	1.4	2.3	1.8
Forgan	0.8	0.8	0.8	1.1	1.3
D'Arcy	2.0	2.4	2.2	3.1	3.0
<i>Villages</i>					
Bounty	1.4	1.2	1.4	n/c	n/c
Hughton	0.8	1.4	1.0	n/c	n/c
Glidden	1.5	1.1	1.1	1.4	1.4
Netherhill	1.6	1.7	1.6	1.8	1.7
Madison	1.4	1.0	1.1	n/c	n/c
Fiske	1.5	1.9	1.7	2.0	1.8
Macrorie	2.6	2.4	3.1	n/c	n/c
Plato	2.4	1.8	1.7	6.6	6.6
White Bear ^a	1.9	2.0	2.0	-	-
Stewart Valley	2.2	2.2	2.5	6.7	7.4
Lacadena ^a	1.3	1.7	1.8	-	-
Sovereign	1.4	1.3	1.3	1.5	1.6
Wiseton	1.3	1.6	1.5	1.8	1.7
Brock	2.1	1.9	1.6	2.2	2.0
<i>Towns</i>					
Milden	1.4	1.4	1.3	1.5	1.3
Dinsmore	1.7	1.4	1.4	n/c	n/c
Elrose	1.1	1.5	1.3	4.4	4.1
Kyle ^a	1.6	1.6	1.8	-	-
<i>Greater Towns</i>					
Eston	1.4	1.5	1.3	2.0	1.8
Rosetown	1.8	1.2	0.9	1.3	1.1
Kindersley	1.6	1.2	1.1	1.3	1.2
Total Study Area	1.5	1.4	1.4	1.9	1.9

n/c - No change in ratios for delivery points remaining open and unaffected by diversions.

^aDelivery points assumed closed after diversion.

Number of Permit Holders Before and After Diversion

If the kind of rationalization postulated in this report were to take place there would also be adjustments in the number of permit holders associated with each delivery point affected. Based on the actual number of permits issued by delivery point 1969-70, estimates were made of the probable number of permits at each delivery point after diversion (Table 44). These estimates were derived using the percentage distribution values in Table 40 in the same manner that acreage and bushel diversions were made. It was also assumed that there would be no attrition of producers as a result of rationalization. In total 732 permit holders would find it necessary to alter their delivery point, which represents 25.3 per cent of the total 2,895 permit holders in the study area.

Plato gained the largest number of permit holders with an increase of 180 added onto an original 58. Other delivery points which more than doubled their numbers of permits were (increases shown in parentheses): Elrose (150), Stewart Valley (140) and Richlea (70). Comparison with previous tables in Part IV reveals that the above four delivery points were also affected most by diversion in terms of acreage and bushel diversions, farm to elevator hauling distances and through-put ratios.

TABLE 44. NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70

Delivery Point	Number of Permit Holders Before Diversion	Estimated Number of Permit Holders After Diversion
<i>Too Small to Classify</i>		
Gaines ^a	12	-
Mondou ^a	11	-
Inglenook ^a	16	-
Penkill ^a	13	-
Sandgren ^a	18	-
Witley ^a	13	-
Fortune ^b	22	22
Juniper ^b	31	31
Tichfield ^b	30	30
Anerley ^b	46	46
Matador ^a	23	-
Ridpath ^b	6	6
Thrasher ^a	25	-
Gunnworth ^a	20	-
Totnes ^a	31	-
Beadle ^b	65	65
<i>Hamlets</i>		
Leach Siding ^b	32	32
McMorran ^a	33	-
Bratton ^b	30	30
Glamis ^a	34	-
Tuberose ^a	30	-
Bickleigh ^a	22	-
Snipe Lake ^b	81	81
Greenan ^b	18	18
Isham ^a	63	-
McGee ^b	15	15
Sanctuary ^a	45	-
Tyner ^a	59	-
Richlea	59	129
Wartime	43	57
Forgan	61	84
D'Arcy	52	68
<i>Villages</i>		
Bounty ^b	48	48
Hughton ^b	63	63
Glidden	61	76
Netherhill	55	59
Madison ^b	68	68

See footnotes at end of table

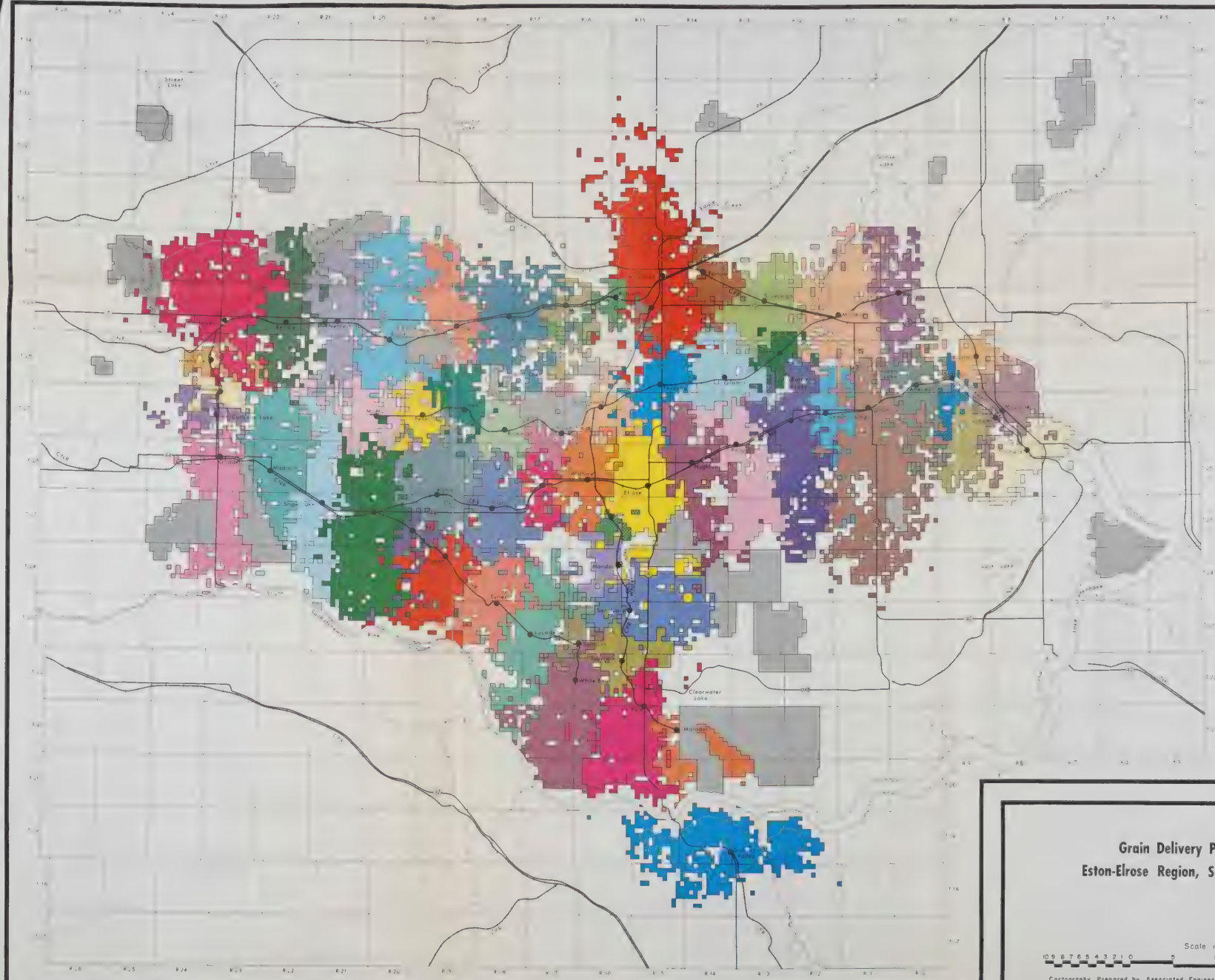
(continued)

TABLE 44. NUMBER OF PERMIT HOLDERS BY DELIVERY POINT BEFORE AND AFTER DIVERSION, BASIS 1969-70 (concluded)

Delivery Point	Number of Permit Holders Before Diversion	Estimated Number of Permit Holders After Diversion
Fiske	79	82
Macrorie ^b	44	44
Plato	58	238
White Bear ^a	105	-
Stewart Valley	95	235
Lacadena ^a	66	-
Sovereign	57	67
Wiseton	73	82
Brock	87	101
<i>Towns</i>		
Milden	82	84
Dinsmore ^b	158	158
Elrose	73	223
Kyle ^a	93	-
<i>Greater Towns</i>		
Eston	125	167
Rosetown	196	217
Kindersley	150	169
Study Area Total	2,895	2,895

^aDelivery points assumed closed after diversion.

^bDelivery points open and unaffected by diversion.



LEGEND

- Anselley
- Beadle
- Buckleigh
- Bounty
- Branton
- Brook
- Chippertfield
- D'Arcy
- Diamondmore
- Elrose
- Eaton
- Fiske
- Forgan
- Fortune
- Glass
- Glanis
- Glen Payne
- Glidden
- Greenan
- Gunnsworth
- Hochman
- Inglebrook
- Isbham
- Juniper
- Kinderley
- Kyle
- Lacadena
- Leach Siding
- Lille
- Macorte
- Madison
- Malabar
- McGee
- McMoran
- Maden
- Mondou
- Neuberhill
- Pensill
- Plato
- Richlea
- Ridpath
- Roselawn
- Saltburn
- Saunders
- Sandgren
- Snipe Lake
- Sorensen
- Sewart Valley
- Subison
- Thrasher
- Tutfield
- Tomes
- Tabrose
- Tynes
- Versodrye
- Warline
- White Bear
- Winston
- Witley

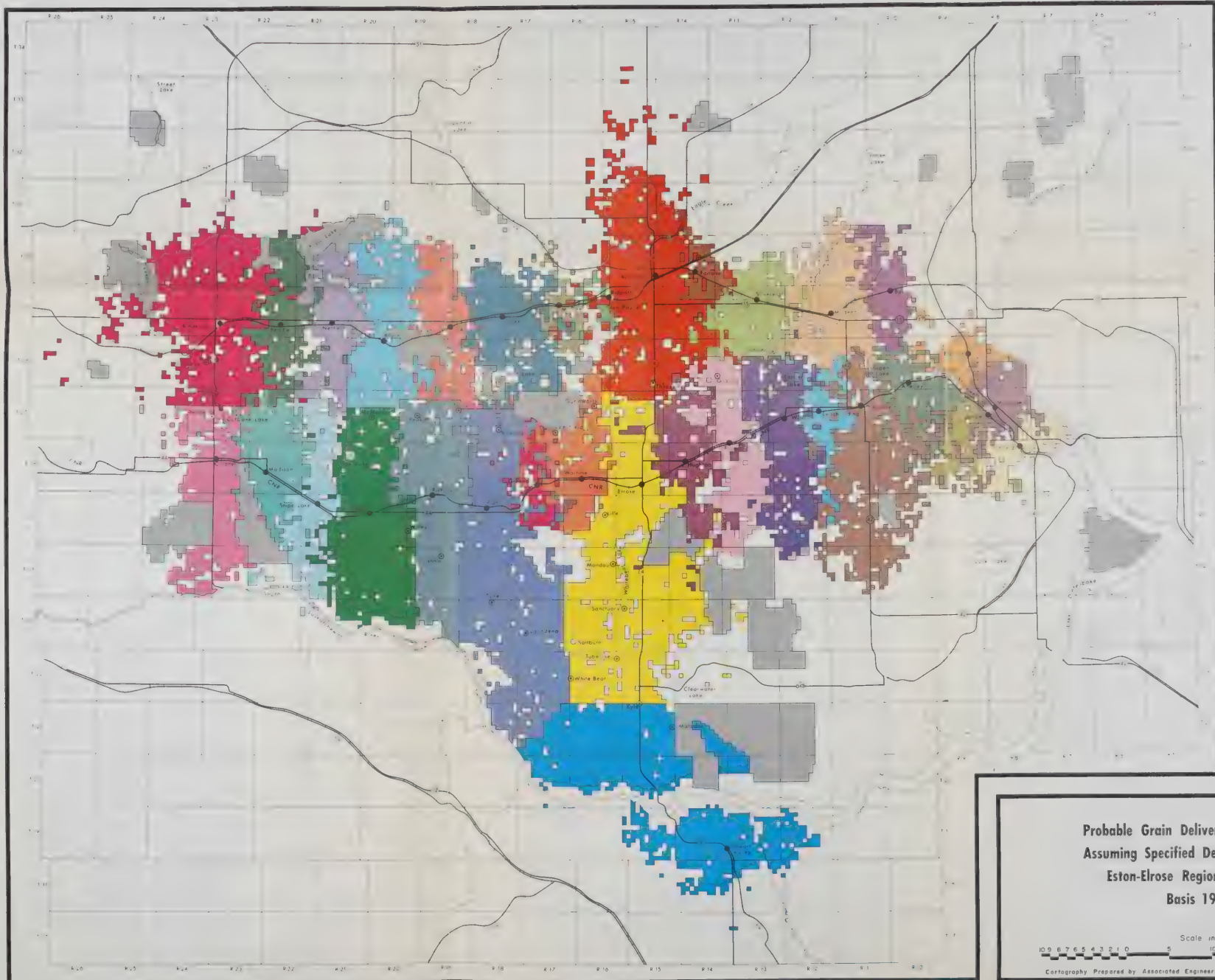
Major Road
 Minor Road
 Railway
 Waterway
 Lake
 River
 Creek
 Stream
 Drainage
 Contour Line
 Elevation (Feet)
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

Grain Delivery Point Hinterlands, Eston-Elrose Region, Saskatchewan, 1962-63

Scale in Miles

0 1 2 3 4 5 6 7 8 9 10 15 20 25 30

Cartography Prepared by Associated Engineering Services Limited, Regina, Saskatchewan



LEGEND

Assiniboia
Bessie
Bonny
Branton
Brock
D'Arcy
Donmore
Elrose
Exton
Fiske
Forgan
Fortune
Gidden
Greenan
Houghton
Juniper
Kindersley
Leach, Siding
Macrotte
Madron
McGee
Milden
Neiberhill
Plato
Rimbey
Ridpath
Rosetown
Snipe Lake
Sovereign
Stewart Valley
Tichfield
Warman
Wiseton



Probable Grain Delivery Point Hinterlands,
Assuming Specified Delivery Points Closed,
Eston-Elrose Region, Saskatchewan,
Basis 1969-70

Scale in Miles
0 5 10 15 20 25 30

Cartography Prepared by Associated Engineering Services Limited, Regina, Saskatchewan



